

EPPL | *European Preferred Parts List*

Issue: 9

Issue Date: 2006-05-25

01 CAPACITORS / 01 CERAMIC

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	CH (Type II)	Ceramic dielectric, Fixed, high capacitance. Cap.Range Tol. Rated Volt. Temp.Characteristic (uF) (%) (V) (%) 0.33 to 0.56 10/20 200 ±20(Vt=0V),-50+30(Vt=Ur) 1.2 to 2.7 10/20 100 ±20(Vt=0V),-50+30(Vt=Ur) 1.8 to 3.3 10/20 50 ±20(Vt=0V),-50+30(Vt=Ur) Size (max. mm.): 10.16 x 11.70 x 5.00 Operating temperature range (°C.): -55 to +125	ESCC 3001/030	SMD	AVX Limited	
2	TCK18xS	Ceramic Dielectric, Fixed, Moulded Multi Layer, High Voltage, Type I Series Capacitance Tol. Rated Volt. Size (nF) (%) (V) (max mm) 182 8.2 10 1000 13.5x12.5x6.5 184 18 10 1000 18.5x16.5x6.5 185 27 10 1000 20.5x19.5x6.5 Temperature Coefficient (10-6/°C.): ± 30 Operating Temperature Range (°C.): -55 to +125	TPR-01-005	Radial	EUROFARAD	
2	TCK28xS	Ceramic Dielectric, Fixed, Moulded Multi Layer, High Voltage, Type II Series Capacitance Tol. Rated Volt. Size (nF) (%) (V) (max mm) 280 1 10 3000 8.5x8.5x5 280 100 10 250 8.5x8.5x5 282 1000 10 250 13.5x12.5x6.5 Temperature Characteristic (%): ± 15 Operating Temperature Range (°C.): -55 to +125	TPR-01-005	Radial	EUROFARAD	
2	TCN83E	High Capacitance, Type II Cap. Range Tol. Rated Volt. Size Height (max mm) (uF) (%) (V) (max mm) Case A Case B Case C Case D Case E 1.0 to 6.8 10 400 22.5 x 19.5 6.5 8.0 12.5 20.0 30.0 1.0 to 10 10 250 22.5 x 19.5 6.5 8.0 12.5 20.0 30.0 1.8 to 33 10 100 22.5 x 19.5 6.5 8.0 12.5 20.0 30.0 5.6 to 47 10 50 22.5 x 19.5 6.5 8.0 12.5 20.0 N/A Operating Temperature Range (°C.): -55 to +125 °C	ESCC 3001/027	Radial	EUROFARAD	

01 CAPACITORS | 02 CERAMIC CHIP

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	0805 (Type I)	Ceramic Dielectric, Fixed Cap. Range Tol. Rated Volt. Temp. Coeff. (pF) (±%) (V) (±10E-6/°C) 10 to 470 1 100 30 Ag terminations Size (max mm) : 2.3 x 1.45 x 1.3 Operating temperature range (°C) : -55 to +125	ESCC 3009/003	Chip	AVX - DIVISION TPC	
1	0805 (Type II)	Ceramic Dielectric, Fixed Cap. Range Tol. Rated Volt. Temp. Charact. (pF) (±%) (V) (%) 1000/2200/4700 10 100 -30,+20 10000 10 50 -30,+20 Ag terminations Size (max mm) : 2.3 x 1.45 x 1.3 Operating temperature range (°C) : -55 to +125	ESCC 3009/008	Chip	AVX - DIVISION TPC	
1	1206 (Type I)	Ceramic Dielectric, Fixed Cap. Range Tol. Rated Volt. Temp. Coeff. (pF) (±%) (V) (±10E-6/°C) 680/1000 1 100 30 1500 1 50 30 Ag terminations Size (max mm) : 4.1 x 2.4 x 2.3 Operating temperature range (°C) : -55 to +125 without derating	ESCC 3009/022	Chip	AVX - DIVISION TPC	
1	1210 (Type II)	Ceramic Dielectric, Fixed Cap. Range Tol. Rated Volt. Temp. Charact. (pF) (±%) (V) (%) 22000 10 100 ±20(Vt=0V), -30/+20(Vt=Ur) 47000/100000 10 50 ±20(Vt=0V), -30/+20(Vt=Ur) Ag terminations Size (max mm) : 4.1 x 3.3 x 2.3 Operating temperature range (°C) : -55 to +125	ESCC 3009/009	Chip	AVX - DIVISION TPC	

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	1812 (Type I)	Ceramic Dielectric, Fixed Cap. Range Tol. Rated Volt. Temp. Coeff. (pF) (%) (V) (+10E-6/°C) 2200/4700 1 100 30 6800/10000 1 50 30 Ag terminations Size (max mm) : 5.0 x 3.6 x 1.8 Operating temperature range (°C) : -55 to +125	ESCC 3009/005	Chip	AVX - DIVISION TPC	
2	32101801 Type I	Ceramic Dielectric, Multilayer, Fixed, Type I Case Size Capacitance Range. Rated Volt. Case Size Tolerance (pF) (V) (max mm) (%) 0805 10.0 - 1000 (E12 series) 50-100-200 2.3x1.55x1.3 1 1206 10.0 - 3300 (E12 series) 50-100-200 3.5x1.9x1.6 1 1210 10.0 - 6800 (E12 series) 50-100-200 3.5x2.8x1.8 1 1812 220 - 18000 (E12 series) 50-100-200 4.8x3.5x1.8 1 2220 470 - 33000 (E12 series) 50-100-200 6.1x5.4x1.8 1 (For the maximum capacitance value within each rated voltage and for each case size refer to Table 2A of Detail Specification) Temperature Coefficient (10-6/°C.): ± 30 Operating Temperature Range (°C.): -55 to +125	CECC/32101-801	Chip	SYFER TECHNOLOGY Ltd.	
2	32101801 Type II	Ceramic Dielectric, Multilayer, Fixed, Type II Case Size Capacitance Range. Rated Volt. Case Size Tolerance (pF) (V) (max mm) (%) 0805 100 - 47000 (E6 series) 50-100-200 2.3x1.55x1.3 10 1206 680 - 100000 (E6 series) 50-100-200 3.5x1.9x1.6 10 1210 1000 - 220000 (E6 series) 50-100-200 3.5x2.8x1.8 10 1812 3900 - 470000 (E6 series) 50-100-200 4.8x3.5x1.8 10 2220 12000 - 1000000 (E6 series) 50-100-200 6.1x5.4x1.8 10 (For the maximum capacitance value within each rated voltage and for each case size refer to Table 2A of Detail Specification) Temperature Coefficient (%): ± 20 (Vt= 0V), +20/-30 (Vt= nominal voltage) Operating Temperature Range (°C.): -55 to +125	CECC/32101-801	Chip	SYFER TECHNOLOGY Ltd.	

01 CAPACITORS | 03 TANTALUM SOLID

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks																																												
1	CSR09	<p>Tantalum Solid Electrolyte</p> <table border="1"> <thead> <tr> <th>Capacitance Range (μF)</th> <th>Tol. (\pm%)</th> <th>Rated Volt. (V)</th> <th>Dimensions (max mm) (max mm)</th> </tr> </thead> <tbody> <tr> <td>0.047 to 0.18</td> <td>5/10</td> <td>75</td> <td>Size A1 7.14 x Dia 2.51</td> </tr> <tr> <td>0.22 to 1.2</td> <td>5/10</td> <td>75</td> <td>Size B1 10.3 x Dia 3.76</td> </tr> <tr> <td>0.22, 0.27</td> <td>5/10</td> <td>50</td> <td>Size A1 7.14 x Dia 2.51</td> </tr> <tr> <td>1.5, 1.8</td> <td>5/10</td> <td>50</td> <td>Size B1 10.3 x Dia 3.76</td> </tr> <tr> <td>0.33, 0.39, 0.47</td> <td>5/10</td> <td>35</td> <td>Size A1 7.14 x Dia 2.51</td> </tr> <tr> <td>2.2, 2.7</td> <td>5/10</td> <td>35</td> <td>Size B1 10.3 x Dia 3.76</td> </tr> <tr> <td>0.56 to 1.00</td> <td>5/10</td> <td>20</td> <td>Size A1 7.14 x Dia 2.51</td> </tr> <tr> <td>3.3 to 6.8</td> <td>5/10</td> <td>20</td> <td>Size B1 10.3 x Dia 3.76</td> </tr> <tr> <td>1.8, 2.0</td> <td>5/10</td> <td>10</td> <td>Size A1 7.14 x Dia 2.51</td> </tr> <tr> <td>10.0 to 15.0</td> <td>5/10</td> <td>10</td> <td>Size B1 10.3 x Dia 3.76</td> </tr> </tbody> </table> <p>Operating temperature range ($^{\circ}$C) : -55 to +125</p>	Capacitance Range (μ F)	Tol. (\pm %)	Rated Volt. (V)	Dimensions (max mm) (max mm)	0.047 to 0.18	5/10	75	Size A1 7.14 x Dia 2.51	0.22 to 1.2	5/10	75	Size B1 10.3 x Dia 3.76	0.22, 0.27	5/10	50	Size A1 7.14 x Dia 2.51	1.5, 1.8	5/10	50	Size B1 10.3 x Dia 3.76	0.33, 0.39, 0.47	5/10	35	Size A1 7.14 x Dia 2.51	2.2, 2.7	5/10	35	Size B1 10.3 x Dia 3.76	0.56 to 1.00	5/10	20	Size A1 7.14 x Dia 2.51	3.3 to 6.8	5/10	20	Size B1 10.3 x Dia 3.76	1.8, 2.0	5/10	10	Size A1 7.14 x Dia 2.51	10.0 to 15.0	5/10	10	Size B1 10.3 x Dia 3.76	MIL-C-39003/2	Axial	KEMET ELECTRONICS Corp.	
Capacitance Range (μ F)	Tol. (\pm %)	Rated Volt. (V)	Dimensions (max mm) (max mm)																																															
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1	CSR13	<p>Tantalum Solid Electrolyte</p> <table border="1"> <thead> <tr> <th>Capacitance Range (μF)</th> <th>Tol. (\pm%)</th> <th>Rated Volt. (V)</th> <th>Case Size</th> </tr> </thead> <tbody> <tr> <td>0.0047 to 6.8</td> <td>5,10</td> <td>100</td> <td>Case A, B, C</td> </tr> <tr> <td>0.1 to 15</td> <td>5,10</td> <td>75</td> <td>Case A, B, C, D</td> </tr> <tr> <td>0.0047 to 22</td> <td>5,10</td> <td>50</td> <td>Case A, B, C, D</td> </tr> <tr> <td>5.6 to 47</td> <td>5,10</td> <td>35</td> <td>Case B, C, D</td> </tr> <tr> <td>3.9 to 220</td> <td>5,10</td> <td>10</td> <td>case A, B, C, D</td> </tr> </tbody> </table> <p>Dimensions (max mm) : Case A : 10.72 x 3.84 DIA Case B : 15.49 x 5.11 DIA Case C : 20.88 x 7.75 DIA Case D : 23.42 x 9.33 DIA</p> <p>Operating temperature range ($^{\circ}$C) : -55 to +125</p>	Capacitance Range (μ F)	Tol. (\pm %)	Rated Volt. (V)	Case Size	0.0047 to 6.8	5,10	100	Case A, B, C	0.1 to 15	5,10	75	Case A, B, C, D	0.0047 to 22	5,10	50	Case A, B, C, D	5.6 to 47	5,10	35	Case B, C, D	3.9 to 220	5,10	10	case A, B, C, D	MIL-PRF-39003/1	Axial	KEMET ELECTRONICS Corp.																					
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1	CSR23	<p>Tantalum Solid Electrolyte</p> <table border="1"> <thead> <tr> <th>Capacitance Range (μF)</th> <th>Tol. (\pm%)</th> <th>Rated Volt. (V)</th> <th>Case Size</th> </tr> </thead> <tbody> <tr> <td>1.2 to 39</td> <td>10/20</td> <td>50</td> <td>Case A, B, C, D</td> </tr> <tr> <td>1.8 to 68</td> <td>10/20</td> <td>35</td> <td>Case A, B, C, D</td> </tr> <tr> <td>2.7 to 180</td> <td>10/20</td> <td>20</td> <td>Case A, B, C, D</td> </tr> <tr> <td>6.8 to 560</td> <td>10/20</td> <td>10</td> <td>Case A, B, C, D</td> </tr> </tbody> </table> <p>Dimensions (max mm) : Case A : 10.72 x 3.84 DIA Case B : 15.49 x 5.11 DIA Case C : 20.88 x 7.75 DIA Case D : 23.42 x 9.33 DIA</p> <p>Operating temperature range ($^{\circ}$C) : -55 to +125</p>	Capacitance Range (μ F)	Tol. (\pm %)	Rated Volt. (V)	Case Size	1.2 to 39	10/20	50	Case A, B, C, D	1.8 to 68	10/20	35	Case A, B, C, D	2.7 to 180	10/20	20	Case A, B, C, D	6.8 to 560	10/20	10	Case A, B, C, D	MIL-PRF-39003/3	Axial	KEMET ELECTRONICS Corp.	
Capacitance Range (μ F)	Tol. (\pm %)	Rated Volt. (V)	Case Size																							
1.2 to 39	10/20	50	Case A, B, C, D																							
1.8 to 68	10/20	35	Case A, B, C, D																							
2.7 to 180	10/20	20	Case A, B, C, D																							
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1	CSS33	<p>Tantalum Solid Electrolyte</p> <table border="1"> <thead> <tr> <th>Capacitance Range (μF)</th> <th>Tol. (\pm%)</th> <th>Rated Volt. (V)</th> <th>Case Size</th> </tr> </thead> <tbody> <tr> <td>1.2 to 39</td> <td>10</td> <td>50</td> <td>Case A, B, C, D</td> </tr> <tr> <td>1.8 to 68</td> <td>10</td> <td>35</td> <td>Case B, C, D</td> </tr> <tr> <td>2.7 to 180</td> <td>10</td> <td>20</td> <td>Case A, B, C, D</td> </tr> <tr> <td>6.8 to 560</td> <td>10</td> <td>10</td> <td>Case A, B, C, D</td> </tr> </tbody> </table> <p>Dimensions (max mm) : Case A : 10.72 x 3.84 DIA Case B : 15.49 x 5.11 DIA Case C : 20.88 x 7.75 DIA Case D : 23.42 x 9.33 DIA</p> <p>Operating temperature range ($^{\circ}$C) : -55 to +125.</p>	Capacitance Range (μ F)	Tol. (\pm %)	Rated Volt. (V)	Case Size	1.2 to 39	10	50	Case A, B, C, D	1.8 to 68	10	35	Case B, C, D	2.7 to 180	10	20	Case A, B, C, D	6.8 to 560	10	10	Case A, B, C, D	MIL-PRF-39003/10	Axial	KEMET ELECTRONICS Corp.	SEE QPL FOR FAILURE RATE C VALUES
Capacitance Range (μ F)	Tol. (\pm %)	Rated Volt. (V)	Case Size																							
1.2 to 39	10	50	Case A, B, C, D																							
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Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks																																																																
1	CTC21	<p>Tantalum Solid Electrolyte</p> <p>Capacitance range (µF) Tol. (± %) Rated Volt. (V) Dimensions (max mm)</p> <table border="1"> <tr><td>10</td><td>10</td><td>63</td><td>11.5 x 9.5 x 5</td></tr> <tr><td>22</td><td>10</td><td>63</td><td>11.5 x 13 x 6</td></tr> <tr><td>15</td><td>10</td><td>50</td><td>11.5 x 9.5 x 5</td></tr> <tr><td>22</td><td>10</td><td>40</td><td>11.5 x 9.5 x 5</td></tr> <tr><td>47</td><td>10</td><td>40</td><td>11.5 x 13 x 6</td></tr> <tr><td>33</td><td>10</td><td>25</td><td>11.5 x 9.5 x 5</td></tr> <tr><td>68</td><td>10</td><td>25</td><td>11.5 x 13 x 6</td></tr> <tr><td>47</td><td>10</td><td>20</td><td>11.5 x 9.5 x 5</td></tr> <tr><td>100</td><td>10</td><td>20</td><td>11.5 x 13 x 6</td></tr> <tr><td>68</td><td>10</td><td>16</td><td>11.5 x 9.5 x 5</td></tr> <tr><td>150</td><td>10</td><td>16</td><td>11.5 x 13 x 6</td></tr> <tr><td>100</td><td>10</td><td>10</td><td>11.5 x 9.5 x 5</td></tr> <tr><td>220</td><td>10</td><td>10</td><td>11.5 x 13 x 6</td></tr> <tr><td>150</td><td>10</td><td>6.3</td><td>11.5 x 9.5 x 5</td></tr> <tr><td>330</td><td>10</td><td>6.3</td><td>11.5 x 13 x 6</td></tr> </table> <p>Operating temperature range (°C) : -55 to +125</p>	10	10	63	11.5 x 9.5 x 5	22	10	63	11.5 x 13 x 6	15	10	50	11.5 x 9.5 x 5	22	10	40	11.5 x 9.5 x 5	47	10	40	11.5 x 13 x 6	33	10	25	11.5 x 9.5 x 5	68	10	25	11.5 x 13 x 6	47	10	20	11.5 x 9.5 x 5	100	10	20	11.5 x 13 x 6	68	10	16	11.5 x 9.5 x 5	150	10	16	11.5 x 13 x 6	100	10	10	11.5 x 9.5 x 5	220	10	10	11.5 x 13 x 6	150	10	6.3	11.5 x 9.5 x 5	330	10	6.3	11.5 x 13 x 6	ESCC 3012/002	SMD	FIRADEC					
10	10	63	11.5 x 9.5 x 5																																																																			
22	10	63	11.5 x 13 x 6																																																																			
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2	CTC21E	<p>Tantalum Solid Electrolyte</p> <p>Capacitance range (µF) Tol. (± %) Rated Volt. (V) Dimensions (max mm)</p> <table border="1"> <tr><td>15</td><td>10</td><td>63</td><td>11.5 x 9.5 x 5</td></tr> <tr><td>33</td><td>10</td><td>63</td><td>11.5 x 13 x 6</td></tr> <tr><td>22</td><td>10</td><td>50</td><td>11.5 x 9.5 x 5</td></tr> <tr><td>47</td><td>10</td><td>50</td><td>11.5 x 13 x 6</td></tr> <tr><td>33</td><td>10</td><td>40</td><td>11.5 x 9.5 x 5</td></tr> <tr><td>68</td><td>10</td><td>40</td><td>11.5 x 13 x 6</td></tr> <tr><td>47</td><td>10</td><td>25</td><td>11.5 x 9.5 x 5</td></tr> <tr><td>100</td><td>10</td><td>25</td><td>11.5 x 13 x 6</td></tr> <tr><td>100</td><td>10</td><td>20</td><td>11.5 x 9.5 x 5</td></tr> <tr><td>220</td><td>10</td><td>20</td><td>11.5 x 13 x 6</td></tr> <tr><td>150</td><td>10</td><td>16</td><td>11.5 x 9.5 x 5</td></tr> <tr><td>330</td><td>10</td><td>16</td><td>11.5 x 13 x 6</td></tr> <tr><td>220</td><td>10</td><td>10</td><td>11.5 x 9.5 x 5</td></tr> <tr><td>470</td><td>10</td><td>10</td><td>11.5 x 13 x 6</td></tr> <tr><td>330</td><td>10</td><td>6.3</td><td>11.5 x 9.5 x 5</td></tr> <tr><td>680</td><td>10</td><td>6.3</td><td>11.5 x 13 x 6</td></tr> </table> <p>Operating temperature range (°C) : -55 to +125</p>	15	10	63	11.5 x 9.5 x 5	33	10	63	11.5 x 13 x 6	22	10	50	11.5 x 9.5 x 5	47	10	50	11.5 x 13 x 6	33	10	40	11.5 x 9.5 x 5	68	10	40	11.5 x 13 x 6	47	10	25	11.5 x 9.5 x 5	100	10	25	11.5 x 13 x 6	100	10	20	11.5 x 9.5 x 5	220	10	20	11.5 x 13 x 6	150	10	16	11.5 x 9.5 x 5	330	10	16	11.5 x 13 x 6	220	10	10	11.5 x 9.5 x 5	470	10	10	11.5 x 13 x 6	330	10	6.3	11.5 x 9.5 x 5	680	10	6.3	11.5 x 13 x 6	ESCC 3012/003	SMD	FIRADEC	Bigger anodes require further attention during parts mounting
15	10	63	11.5 x 9.5 x 5																																																																			
33	10	63	11.5 x 13 x 6																																																																			
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680	10	6.3	11.5 x 13 x 6																																																																			

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1	TAJ	<p>Tantalum Solid Electrolyte</p> <table border="1"> <thead> <tr> <th>Capacitance value (μF)</th> <th>Tol. (\pm%)</th> <th>Rated Volt. (V)</th> <th>Case size</th> </tr> </thead> <tbody> <tr> <td>1.0</td> <td>10</td> <td>50</td> <td>C</td> </tr> <tr> <td>1.0</td> <td>10</td> <td>35</td> <td>B</td> </tr> <tr> <td>2.2</td> <td>10</td> <td>35</td> <td>C</td> </tr> <tr> <td>10</td> <td>10</td> <td>35</td> <td>D</td> </tr> <tr> <td>22</td> <td>10</td> <td>35</td> <td>E</td> </tr> <tr> <td>1.5</td> <td>10</td> <td>16</td> <td>A</td> </tr> <tr> <td>4.7</td> <td>10</td> <td>16</td> <td>B</td> </tr> <tr> <td>10</td> <td>10</td> <td>16</td> <td>C</td> </tr> <tr> <td>100</td> <td>10</td> <td>16</td> <td>E</td> </tr> <tr> <td>220</td> <td>10</td> <td>10</td> <td>E</td> </tr> </tbody> </table> <p>Size A (max mm) : 3.4 x 1.8 x 1.8 Size B (max mm) : 3.7 x 3.0 x 2.1 Size C (max mm) : 6.2 x 3.4 x 2.8 Size D (max mm) : 7.5 x 4.5 x 3.1 Size E (max mm) : 7.5 x 4.5 x 4.3 Gold plated termination. Operating temperature range ($^{\circ}$C) : -55 to +125</p>	Capacitance value (μ F)	Tol. (\pm %)	Rated Volt. (V)	Case size	1.0	10	50	C	1.0	10	35	B	2.2	10	35	C	10	10	35	D	22	10	35	E	1.5	10	16	A	4.7	10	16	B	10	10	16	C	100	10	16	E	220	10	10	E	ESCC 3012/001	SMD	AVX LTD	
Capacitance value (μ F)	Tol. (\pm %)	Rated Volt. (V)	Case size																																															
1.0	10	50	C																																															
1.0	10	35	B																																															
2.2	10	35	C																																															
10	10	35	D																																															
22	10	35	E																																															
1.5	10	16	A																																															
4.7	10	16	B																																															
10	10	16	C																																															
100	10	16	E																																															
220	10	10	E																																															

01 CAPACITORS | 04 TANTALUM NON-SOLID

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks																								
1	CLR79	<p>Tantalum Non-Solid Electrolyte</p> <table border="1"> <thead> <tr> <th>Capacitance Range(μF)</th> <th>Tol.(±%)</th> <th>Rated Volt.(V)</th> <th>Available sizes</th> </tr> </thead> <tbody> <tr> <td>2.7 to 82</td> <td>10/20</td> <td>125</td> <td>A, B, C, D</td> </tr> <tr> <td>3.5 to 250</td> <td>10/20</td> <td>75</td> <td>A, B, C, D</td> </tr> <tr> <td>5 to 430</td> <td>10/20</td> <td>50</td> <td>A, B, C, D</td> </tr> <tr> <td>8 to 560</td> <td>10/20</td> <td>30</td> <td>A, B, C, D</td> </tr> <tr> <td>20 to 1800</td> <td>10/20</td> <td>10</td> <td>A, B, C, D</td> </tr> </tbody> </table> <p>Size A, Var. 02 (max mm) : 12.43 x Dia 5.6 Size B, Var. 03 (max mm) : 17.2 x Dia 7.6 Size C, var. 04 (max mm) : 20.4 x Dia 10.0 Size D, var. 05 (max mm) : 27.9 x Dia 10.0</p> <p>Operating temperature range (°C) : -55 to +125</p>	Capacitance Range(μF)	Tol.(±%)	Rated Volt.(V)	Available sizes	2.7 to 82	10/20	125	A, B, C, D	3.5 to 250	10/20	75	A, B, C, D	5 to 430	10/20	50	A, B, C, D	8 to 560	10/20	30	A, B, C, D	20 to 1800	10/20	10	A, B, C, D	ESCC 3003/005	Axial	ARCOTRONICS LTD	
Capacitance Range(μF)	Tol.(±%)	Rated Volt.(V)	Available sizes																											
2.7 to 82	10/20	125	A, B, C, D																											
3.5 to 250	10/20	75	A, B, C, D																											
5 to 430	10/20	50	A, B, C, D																											
8 to 560	10/20	30	A, B, C, D																											
20 to 1800	10/20	10	A, B, C, D																											

01 CAPACITORS | 05 PLASTIC METALLIZED

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks																														
1	HT86PS	<p>Plastic Film Dielectric, High Voltage.</p> <table border="1"> <thead> <tr> <th>Cap. Range(nF)</th> <th>Tol.(±%)</th> <th>Rated Volt.(V)</th> </tr> </thead> <tbody> <tr> <td>0.68 to 15</td> <td>10</td> <td>20000</td> </tr> <tr> <td>1.5 to 33</td> <td>10</td> <td>15000</td> </tr> <tr> <td>3.3 to 68</td> <td>10</td> <td>12500</td> </tr> <tr> <td>1.0 to 100</td> <td>10</td> <td>10000</td> </tr> <tr> <td>2.2 to 220</td> <td>10</td> <td>7500</td> </tr> <tr> <td>6.8 to 470</td> <td>10</td> <td>5000</td> </tr> <tr> <td>15 to 1000</td> <td>10</td> <td>3500</td> </tr> <tr> <td>15 to 1500</td> <td>10</td> <td>2500</td> </tr> <tr> <td>33 to 2200</td> <td>10</td> <td>1500</td> </tr> </tbody> </table> <p>Temperature Coefficient: Temperature (°C.) Capacitance change (%) +22 to -55 -3.0 min +22 to +125 +10 max</p> <p>Size (max mm):36x11x5 to 106x51x15 depending on Voltage/Capacitance Value Operating Temperature Range (°C) : -55 to +125</p>	Cap. Range(nF)	Tol.(±%)	Rated Volt.(V)	0.68 to 15	10	20000	1.5 to 33	10	15000	3.3 to 68	10	12500	1.0 to 100	10	10000	2.2 to 220	10	7500	6.8 to 470	10	5000	15 to 1000	10	3500	15 to 1500	10	2500	33 to 2200	10	1500	ESCC 3006/022	Axial	EUROFARAD	
Cap. Range(nF)	Tol.(±%)	Rated Volt.(V)																																		
0.68 to 15	10	20000																																		
1.5 to 33	10	15000																																		
3.3 to 68	10	12500																																		
1.0 to 100	10	10000																																		
2.2 to 220	10	7500																																		
6.8 to 470	10	5000																																		
15 to 1000	10	3500																																		
15 to 1500	10	2500																																		
33 to 2200	10	1500																																		
1	KM94S	<p>Self-healing metalised film dielectric</p> <table border="1"> <thead> <tr> <th>Capacitance Value (nF)</th> <th>Rated Voltage (V)</th> <th>Tolerance</th> <th>Available sizes</th> </tr> </thead> <tbody> <tr> <td>4.64 - 1000</td> <td>50</td> <td>5 %</td> <td>01, 02, 03</td> </tr> <tr> <td>1.0 - 470</td> <td>100</td> <td>5 %</td> <td>01, 02, 03</td> </tr> </tbody> </table> <p>Size 01 (max mm) : 8.0 x 7.5 x 4.5 Size 02 (max mm) : 8.0 x 8.5 x 7.5 Size 03 (max mm) : 10.7 x 10.7 x 7.5</p>	Capacitance Value (nF)	Rated Voltage (V)	Tolerance	Available sizes	4.64 - 1000	50	5 %	01, 02, 03	1.0 - 470	100	5 %	01, 02, 03	ESCC 3006/023	SMD	EUROFARAD																			
Capacitance Value (nF)	Rated Voltage (V)	Tolerance	Available sizes																																	
4.64 - 1000	50	5 %	01, 02, 03																																	
1.0 - 470	100	5 %	01, 02, 03																																	

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks																								
1	PM90SR2	<p>Self-healing metalised film dielectric</p> <table border="1"> <thead> <tr> <th>Cap. Range (μF)</th> <th>Tol. (\pm%)</th> <th>Rated Volt. (V)</th> </tr> </thead> <tbody> <tr> <td>0.22 to 5.6</td> <td>10</td> <td>630</td> </tr> <tr> <td>0.39 to 15</td> <td>10</td> <td>400</td> </tr> <tr> <td>1.0 to 39</td> <td>10</td> <td>250</td> </tr> <tr> <td>3.3 to 100</td> <td>10</td> <td>100</td> </tr> <tr> <td>8.2 to 150</td> <td>10</td> <td>50</td> </tr> </tbody> </table> <p>Size (max mm): 31.5 x 33 x 32.5 (Variant 09 to 16) depending on Voltage/capacitance value</p> <p>Temperature Coefficient:</p> <table border="1"> <thead> <tr> <th>Temperature ($^{\circ}$C.)</th> <th>Capacitance change (max) (%)</th> </tr> </thead> <tbody> <tr> <td>+22 to -55</td> <td>-10</td> </tr> <tr> <td>+22 to +100</td> <td>+8.0</td> </tr> </tbody> </table> <p>Operating temperature range ($^{\circ}$C.): -55 to +100.</p>	Cap. Range (μ F)	Tol. (\pm %)	Rated Volt. (V)	0.22 to 5.6	10	630	0.39 to 15	10	400	1.0 to 39	10	250	3.3 to 100	10	100	8.2 to 150	10	50	Temperature ($^{\circ}$ C.)	Capacitance change (max) (%)	+22 to -55	-10	+22 to +100	+8.0	ESCC 3006/020	SMD	EUROFARAD	
Cap. Range (μ F)	Tol. (\pm %)	Rated Volt. (V)																												
0.22 to 5.6	10	630																												
0.39 to 15	10	400																												
1.0 to 39	10	250																												
3.3 to 100	10	100																												
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1	PM94S	<p>Self-healing metalised film dielectric</p> <table border="1"> <thead> <tr> <th>Capacitance Value (μF)</th> <th>Rated Voltage (V)</th> <th>Tolerance</th> <th>Available sizes</th> </tr> </thead> <tbody> <tr> <td>0.56 - 12</td> <td>100</td> <td>10 %</td> <td>01, 02, 03, 04</td> </tr> <tr> <td>0.22 - 4.7</td> <td>250</td> <td>10 %</td> <td>01, 02, 03, 04</td> </tr> <tr> <td>0.1 - 1.8</td> <td>400</td> <td>10 %</td> <td>01, 02, 03, 04</td> </tr> </tbody> </table> <p>Size 01 (max mm) : 10.7 x 10.7 x B (6, 8, 10, 12, 14, 15 mm depending on cap. value)</p> <p>Size 02 (max mm) : 15.5 x 11.5 x B (6, 8, 10, 12, 14, 15 mm depending on cap. value)</p> <p>Size 03 (max mm) : 16.5 x 15.5 x B (6, 8, 10, 12, 14, 15 mm depending on cap. value)</p> <p>Size 04 (max mm) : 18.5 x 17.0 x B (6, 8, 10, 12, 14, 15 mm depending on cap. value)</p>	Capacitance Value (μ F)	Rated Voltage (V)	Tolerance	Available sizes	0.56 - 12	100	10 %	01, 02, 03, 04	0.22 - 4.7	250	10 %	01, 02, 03, 04	0.1 - 1.8	400	10 %	01, 02, 03, 04	ESCC 3006/024	SMD	EUROFARAD									
Capacitance Value (μ F)	Rated Voltage (V)	Tolerance	Available sizes																											
0.56 - 12	100	10 %	01, 02, 03, 04																											
0.22 - 4.7	250	10 %	01, 02, 03, 04																											
0.1 - 1.8	400	10 %	01, 02, 03, 04																											

02 CONNECTORS / 01 CIRCULAR

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks																
1	38999 Series I	<p>Circular, Bayonet Coupling, Removable Crimp Contacts, scoop-proof, based on MIL-C-38999 Series I.</p> <p>Range: 6, 13, 22, 37, 55, 66, 79, 100, 128 contacts size #22. 3, 6, 10, 19, 26, 32, 41, 53, 61 contacts size #20.</p> <p>Other arrangements with contact sizes: 16, 12, 8.</p> <p>For contact sizes refer to ESCC 3401/058.</p> <p>Receptacle and plug shell sizes:09,11,13,15,17,19,21,23,25.</p> <table border="0"> <thead> <tr> <th>Contact sizes</th> <th>Rating (A)</th> <th>Contact sizes</th> <th>Rating (A)</th> </tr> </thead> <tbody> <tr> <td>08</td> <td>46.0</td> <td>12</td> <td>23.0</td> </tr> <tr> <td>16</td> <td>13.0</td> <td>20</td> <td>7.5</td> </tr> <tr> <td>22</td> <td>5.0</td> <td></td> <td></td> </tr> </tbody> </table> <p>Operating Temperature Range (°C): -65 to +200</p>	Contact sizes	Rating (A)	Contact sizes	Rating (A)	08	46.0	12	23.0	16	13.0	20	7.5	22	5.0			ESCC 3401/052	AS PER SPEC.	SOURIAU	
Contact sizes	Rating (A)	Contact sizes	Rating (A)																			
08	46.0	12	23.0																			
16	13.0	20	7.5																			
22	5.0																					
1	38999 Series II	<p>Circular, Bayonet Coupling, Low Profile, Removable Crimp Contacts, Based on MIL-C-38999 Series II.</p> <p>Range: 6, 13, 22, 37, 55, 66, 79, 100, 128 contacts size #22. 3, 6, 10, 18, 26, 32, 41, 55, 61 contacts size #20.</p> <p>Other arrangements with contact sizes: 20, 16, 12.</p> <p>For contact sizes refer to ESCC 3401/045.</p> <p>Receptacle and plug shell sizes:08,10,12,14,16,18,20,22,24.</p> <table border="0"> <thead> <tr> <th>Contact sizes</th> <th>Rating (A)</th> <th>Contact sizes</th> <th>Rating (A)</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>23.0</td> <td>16</td> <td>13.0</td> </tr> <tr> <td>20</td> <td>7.5</td> <td>22</td> <td>5.0</td> </tr> </tbody> </table> <p>Operating Temperature Range (°C): -65 to +200</p>	Contact sizes	Rating (A)	Contact sizes	Rating (A)	12	23.0	16	13.0	20	7.5	22	5.0	ESCC 3401/044	AS PER SPEC.	SOURIAU					
Contact sizes	Rating (A)	Contact sizes	Rating (A)																			
12	23.0	16	13.0																			
20	7.5	22	5.0																			
1	38999 Series III	<p>Circular, Triple-start, Self Locking Coupling, Scoop-proof, Removable Crimp Contacts, based on MIL-C-38999 Series III</p> <p>Range: 6, 13, 22, 37, 55, 66, 79, 100, 128 contacts #22 3, 6, 10, 19, 26, 32, 41, 53, 61 contacts #20</p> <p>Other arrangements with contact sizes: 20, 16, 12, 8, 4.</p> <p>For contact sizes refer to ESCC 3401/058, /066, /070.</p> <table border="0"> <thead> <tr> <th>Contact sizes</th> <th>Rating (A)</th> <th>Contact sizes</th> <th>Rating (A)</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>80.0</td> <td>8</td> <td>46.0</td> </tr> <tr> <td>12</td> <td>23.0</td> <td>16</td> <td>13.0</td> </tr> <tr> <td>20</td> <td>7.5</td> <td>22</td> <td>5.0</td> </tr> </tbody> </table> <p>Operating Temperature Range (°C): -65 to +200</p>	Contact sizes	Rating (A)	Contact sizes	Rating (A)	4	80.0	8	46.0	12	23.0	16	13.0	20	7.5	22	5.0	ESCC 3401/056	AS PER SPEC.	SOURIAU	
Contact sizes	Rating (A)	Contact sizes	Rating (A)																			
4	80.0	8	46.0																			
12	23.0	16	13.0																			
20	7.5	22	5.0																			

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks								
1	38999 SeriesIII Hermetic receptacle	<p>Circular, Hermetic Receptacle, Scoop-proof, non-removable solder contacts, based on MIL-C-38999 Series III.</p> <p>Range: 6, 13, 22, 37, 55, 66, 79, 100, 128 contacts size#22 3, 6, 10, 19, 26, 32, 41, 53, 61 contacts size#20</p> <table border="0"> <tr> <td>Contact size</td> <td>Rating (A)</td> <td>Contact size</td> <td>Rating (A)</td> </tr> <tr> <td>20</td> <td>7.5</td> <td>22</td> <td>5.0</td> </tr> </table> <p>Operating Temperature Range (°C): -65 to +200</p>	Contact size	Rating (A)	Contact size	Rating (A)	20	7.5	22	5.0	ESCC 3401/057	AS PER SPEC.	SOURIAU	
Contact size	Rating (A)	Contact size	Rating (A)											
20	7.5	22	5.0											

02 CONNECTORS / 02 RECTANGULAR

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks												
1	D*M (Solder, PCB and Wire Wrap)	<p>Rectangular, non removable solder bucket, PCB and wire-wrap contacts and removable coaxial and power contacts.</p> <p>Range: 9, 15, 25, 37 and 50 contacts size# 20 15, 26, 44, 62 and 78 contacts size# 22</p> <p>Coaxial Contact Arrangements: contact variants 01 to 20 (ITT Cannon). Power Contact Arrangements: contact variants 01 to 12 (ITT Cannon). Gold-plated non-magnetic shells</p> <table border="0"> <tr> <td>Contact size</td> <td>Rating (A)</td> <td>Contact size</td> <td>Rating (A)</td> </tr> <tr> <td>20</td> <td>7.5</td> <td>22</td> <td>3.0</td> </tr> </table> <p>Operating Temperature Range (°C): -55 to +125</p>	Contact size	Rating (A)	Contact size	Rating (A)	20	7.5	22	3.0	ESCC 3401/001	AS PER SPEC.	ITT CANNON SOURIAU	Souriau is not qualified for Coaxial and Power Contacts				
Contact size	Rating (A)	Contact size	Rating (A)															
20	7.5	22	3.0															
1	D*MA (Crimp)	<p>Rectangular, removable crimp contact.</p> <p>Range: 9, 15, 25, 37, 50 contacts size# 20 15, 26, 44, 62, 78 contacts size# 22</p> <p>For contact sizes refer to ESCC 3401/005; for the corresponding saver and for its own contacts refer to ESCC 3401/021 and ESCC 3401/020 respectively. Gold-plated non-magnetic shells</p> <table border="0"> <tr> <td>Contact size</td> <td>Rating (A)</td> <td>Contact size</td> <td>Rating (A)</td> </tr> <tr> <td>20</td> <td>7.5(AWG 20to24)</td> <td>20</td> <td>3.0(AWG 26and28)</td> </tr> <tr> <td>20</td> <td>7.5(AWG 18and20)</td> <td>22</td> <td>5.0</td> </tr> </table> <p>Operating Temperature Range (°C): -55 to +125</p>	Contact size	Rating (A)	Contact size	Rating (A)	20	7.5(AWG 20to24)	20	3.0(AWG 26and28)	20	7.5(AWG 18and20)	22	5.0	ESCC 3401/002	AS PER SPEC.	ITT CANNON SOURIAU	
Contact size	Rating (A)	Contact size	Rating (A)															
20	7.5(AWG 20to24)	20	3.0(AWG 26and28)															
20	7.5(AWG 18and20)	22	5.0															
1	MDM	<p>Rectangular, non removable wired contacts</p> <p>Range: 9, 15, 21, 25, 31, 37, 51 contacts size.</p> <p>Terminations: Wire sizes AWG 26 and 28 and AWG 25 uninsulated solid gold-plated wire</p> <p>Rating (A): 2.5 with AWG 26 and uninsulated wire 1.5 with AWG 28</p> <p>Nickel Plated Shells</p> <p>For the corresponding saver refer to ESCC 3401/041. Operating Temperature Range (°C): -55 to +125</p>	ESCC 3401/029	AS PER SPEC.	ITT CANNON	Supplied with uninsulated or already fitted wires; length of wires shall be specified by the orderer												
1	MTB	<p>Single in line, microminiature.</p> <p>Shell size: 5 through 81 contacts single in line</p> <p>Terminations: Wire sizes AWG 26 and 28 and AWG 25 uninsulated solid gold-plated wire</p> <p>Rating (A): 2.5 with AWG 26 and uninsulated wire 1.5 with AWG 28</p> <p>Operating Temperature Range (°C): -55 to +125</p>	ESCC 3401/031	AS PER SPEC.	ITT CANNON	Supplied with uninsulated or already fitted wires; length of wires shall be specified by the orderer												

02 CONNECTORS / 03 PRINTED CIRCUIT BOARD

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	HE801/HPD	For PCB, removable contacts, crimp, wire-wrap, solder type, saver type. Range: 2 rows: 17, 29, 41, 53, 65, 72, 84, 96, 120 contacts 3 rows: 62, 80, 98, 160 contacts Contact Type: 3401/017 Crimp-type. 3401/018 Wire-wrap type. 3401/019 Solder/Saver type(wire sizes 22 to 26). Rating (A): 5.0 (1 contact,AWG 22) 1.5 (>31 contacts,AWG 22) Operating Temperature Range (°C): -55 to +125	ESCC 3401/016	AS PER SPEC.	HYPERTAC S.A. HYPERTAC LTD	
2	IHD INTERPOSER	PCB/PCB and PCB/MCM connections Pad Size (min.) : 0,8 mm Standard Pitch : 1.905 mm between contacts and 1.524 mm between rows Standard Height : 7.8 mm RFF contacts Contact Resistance: <25 mohm Nominal current: 1 A Operating temperature range: -55 to +125 °C	ESCC 3401 + FT33033 Ed. A	N/A	HYPERTAC	
1	KMC	For PCB, non removable solder and wire wrap contacts and connector saver. Range: 3 rows 26, 44, 62, 80, 98, 144 contacts Contact Type: Solder and Wire-wrap for AWG 28 wires and PCB Rating (A): 2.0 (1 to 3 used contacts), 0.9 (4 to 26 used contacts) and 0.5 (over 27 used contacts) Operating Temperature Range (°C): -55 to +125	ESCC 3401/039	AS PER SPEC.	HYPERTAC S.A.	
1	MHD	For PCB, non removable solder through board and surface mount contacts and connector saver. Range: 4 rows 52, 100, 152, 200, 252, 300, 352 and 400 contacts Contact Type: Solder through board and surface mount for PCB Rating (A): 2.0 (1 to 3 used contacts), 0.9 (4 to 26 used contacts) and 0.5 (over 27 used contacts) Operating Temperature Range (°C): -55 to +125	ESCC 3401/065	AS PER SPEC.	HYPERTAC S.A.	

02 CONNECTORS / 05 RF COAXIAL

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	SMA	RF coaxial, 50 ohms. 3402/001 male contacts (plug), 3402/002 female contacts (receptacle), 3402/003 adapters. Crimp or solder contacts for flexible and semi-rigid cables, contacts for micro-strip. Types covered by similarity : hermetically sealed receptacle; Amagnetic stainless steel; Operating temperature range as per det. Spec.	ESCC 3402/001 ESCC 3402/002 ESCC 3402/003	AS PER SPEC.	RADIALL	
2	SMA 2.9	RF coaxial, 50 ohms, DC to 40 GHz 3402/021 male contacts (plug) 3402/022 female contacts (receptacle) 3402/023 adapters and connecting pieces Type variants as per Table 1(a) of Detail Specifications Operating temperature range: -65 / +165 °C	ESCC 3402/021 ESCC 3402/022 ESCC 3402/023	AS PER SPEC.	RADIALL	
2	SMP	RF Coaxial Connectors, 50 ohms, adaptor and connecting pieces Frequency limit up to 20 GHz Variant 01: limited detent receptacle for PCB CMS (pin contact) Variant 02: straight female-female adapter (10.3 mm) Variant 03: straight female-female adapter (5.69 mm) Variant 04: right angle receptacle for PCB, limited detent, solder type (pin contact) Operating temperature range: -65 / +165 °C	RAD-DET-CONN-019	AS PER SPEC.	RADIALL	

02 CONNECTORS | 07 MICROMINIATURE

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	D-PASO	Sub-miniature connectors 20 Pin and socket, crimp and welding contacts Contact size AWG20 Rated current: 7.5 A Operating temperature range: -170 / +170 °C	ND 172-042	AS PER SPEC.	COMPAGNIE DEUTSCH	ESCC specification under preparation
2	MDM	Rectangular, non removable wired contacts Range: 9, 15, 21, 25, 31, 37, 51 contacts size. Terminations: Wire sizes AWG 26 and 28 and AWG 25 uninsulated solid gold-plated wire Rating (A): 2.5 with AWG 26 and uninsulated wire 1.5 with AWG 28 Nickel Plated Shells For the corresponding saver refer to ESCC 3401/041. Operating Temperature Range (°C): -55 to +125	ESCC 3401/029 + drawings N. GFS 4410 and GFS 35556	AS PER SPEC.	HYPERTAC	
2	MDSA	Rectangular, non removable wired contacts Range: 9, 15, 21, 25, 31, 37, 51 contacts size. Terminations: Single wire ESCC/3901/013 variant 01 (AWG28) Single wire ESCC/3901/013 variant 02 (AWG26) Single wire ESCC/3901/002 variant 61 (AWG28) Single wire ESCC/3901/002 variant 56 (AWG26) AWG 25 uninsulated solid gold-plated wire Single wire M22759/33-26 as per MIL-DTL-83513 Rating (A): 2.5 with AWG 26 and uninsulated wire 1.5 with AWG 28 Nickel or Gold Plated Shells For the corresponding saver refer to ESCC 3401/041. Operating Temperature Range (°C): -55 to +125	Axon 05039-ST-01 Issue A	AS PER SPEC.	AXON' CABLE	

02 CONNECTORS | 08 RF FILTER

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	D*J	Filtered, rectangular, non-removable solder bucket contacts, filtering. Range: 9, 15, 25, 37, 50 contacts Filter type M (medium frequency) only Solder buckets terminations Rated Current: 5 Adc Operating Temperature Range (C): -55 to +125	CSFR 165	AS PER SPEC.	ITT CANNON	

03 PIEZO-ELECTRIC DEVICES | 01 CRYSTAL RESONATOR

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	47	Crystal units in SMD 47 case Frequency Range: 5.0-160 MHz Operating temperature range: -55 to +125 °C	ESCC 3501/015	LCC 40	TEMEX S.A.	ESCC 3501 flow
1	76	Crystal units in SMD 76 case Frequency Range: 1.5-30 MHz Operating temperature range: -55 to +125 °C	ESCC 3501/014	FP	TEMEX S.A.	ESCC 3501 flow
1	T1507	Crystal units in metal holder Frequency Range: 3 - 20 MHz Operating temperature range depending on type variant	ESCC 3501/019	TO8 CAN	C-MAC FRANCE	
1	T807	Crystal units in metal holder Frequency Range: 14 - 140 MHz Operating temperature range depending on type variant	ESCC 3501/018	TO5 CAN	C-MAC FRANCE	

04 DIODES | 02 RECTIFIER

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	1N5416 thru 1N5418, 1N5420	Silicon, Power Rectifier, Fast Recovery. DC forward voltage (max V): 1.5 @ DC forward current (pk A): 9.0 DC reverse current (max μ A): 1.0 @ DC reverse voltage (V):100,200,400,600. Switching time (ns): 150 (400 for 1N5420); IFSM=80 A (pk); Io=3.0 A (t=55°C.) Operating Temperature range (°C.): -65 to +175.	MIL-S-19500/411	AXIAL	Sensitron Semiconductor Inc.	Sensitron spec. 7700-4091 for JANS-equivalent screening flow
2	1N5416, 1N5417, 1N5418, 1N5420	Silicon, Power Rectifier, Fast Recovery. DC forward voltage (max V): 1.5 @ DC forward current (pk A): 9.0 DC reverse current (max μ A): 1.0 @ DC reverse voltage (V):100,200,400,600. Switching time (ns): 150 (400 for 1N5420); IFSM=80 A (pk); Io=2.0 A (t=55°C.) Operating Temperature range (°C.): -65 to +175.	MIL-S-19500/411	A248	MICROSEMI SCOTTSDALE	
2	1N5416US thru 1N5418US, 1N5420US	Silicon, Power Rectifier, Fast Recovery. DC forward voltage (max V): 1.5 @ DC forward current (pk A): 9.0 DC reverse current (max μ A): 1.0 @ DC reverse voltage (V):100,200,400,600. Switching time (ns): 150 (400 for 1N5420US); IFSM=80 A (pk); Io=3.0 A (t=55°C.) Operating Temperature range (°C.): -65 to +175.	MIL-S-19500/411	MELF	Sensitron Semiconductor Inc.	Sensitron spec. 7700-4091 for JANS-equivalent screening flow
2	1N5550, 1N5552, 1N5554	Silicon, Power Rectifier, General Purpose. DC forward voltage(max V):1.2(1.3 for 1N5554) @DC forward current(pk A):9.0 DC reverse current(max μ A):1.0 @ DC reverse voltage (V): 200, 600, 1000 Switching time (ns): 2000; IFSM= 100 A (pk); Io= 3.0 A (t=55°C.) Operating Temperature range (°C.): -65 to +175.	MIL-S-19500/420	A1	MICROSEMI SCOTTSDALE	
1	1N5614, 1N5616, 1N5618	Silicon, Power Rectifier DC forward voltage (max V): 1.3 @ DC forward current (pk A): 3.0* DC reverse current (max μ A): 0.5 @ DC reverse voltage (V): 200, 400, 600 Switching time (ns): 2000; IFSM= 30 A (pk); Io= 1 A (t=55°C.) Operating Temperature range (°C.): -65 to +175. * pulsed	MIL-S-19500/427	A248	MICROSEMI SCOTTSDALE	
2	1N5615, 1N5617(A/UN),1N5619, 1N5623	Silicon, Power Rectifier, Fast Recovery. DC forward voltage (max V): 1.6 @ DC forward current (pk A): 3.0* DC reverse current (max μ A): 1.0 @ DC reverse voltage (V): 200, 600, 1000 Switching time (ns): 150, 250, 500 respectively IFSM= 25 A (pk); Io= 1 A (t=55°C.) Operating Temperature Range (°C.): -65 to +175. * pulsed	MIL-S-19500/429	A248	MICROSEMI SCOTTSDALE	

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	1N5806	Silicon, Power Rectifier, Fast Recovery. DC forward voltage (max V): 0.875 @ DC forward current (pk A): 1.0 DC reverse current (max μ A): 1.0 @ DC reverse voltage (V):150. Switching time (ns): 25; IFSM=35 A (pk); Io=1.0 A (t=55°C.) Operating Temperature range (°C.): -65 to +175.	MIL-S-19500/477	AXIAL	Sensitron Semiconductor Inc.	Sensitron spec. 7700-4091 for JANS-equivalent screening flow
1	1N5806US	Silicon, Fast Recovery, Power Rectifier. DC forward voltage (max V):0.975,0.925 @DC forward current (pk A):2.5,6.0* DC reverse current (max μ A): 1.0, 5.0 @DC reverse voltage (V): 150 Switching time (ns): 25, 30 respectively IFSM= 35, 125 A (pk); Io= 1.0, 3.0 respectively. Operating Temperature Range (°C.): -65 to +175. * pulsed	MIL-S-19500/477	D-5A	MICROSEMI SCOTTSDALE	
2	1N5806US	Silicon, Power Rectifier, Fast Recovery. DC forward voltage (max V): 0.875 @ DC forward current (pk A): 1.0 DC reverse current (max μ A): 1.0 @ DC reverse voltage (V):150. Switching time (ns): 25; IFSM=35 A (pk); Io=1.0 A (t=55°C.) Operating Temperature range (°C.): -65 to +175.	MIL-S-19500/477	MELF	Sensitron Semiconductor Inc.	Sensitron spec. 7700-4091 for JANS-equivalent screening flow
2	1N5811	Silicon, Power Rectifier, Fast Recovery. DC forward voltage (max V): 0.975 @ DC forward current (pk A): 2.5 DC reverse current (max μ A): 5.0 @ DC reverse voltage (V):150. Switching time (ns): 30; IFSM=125 A (pk); Io=3.0 A (t=55°C.) Operating Temperature range (°C.): -65 to +175.	MIL-S-19500/477	AXIAL	Sensitron Semiconductor Inc.	Sensitron spec. 7700-4091 for JANS-equivalent screening flow
1	1N5811US	Silicon, Fast Recovery, Power Rectifier. DC forward voltage (max V):0.975,0.925 @DC forward current (pk A):2.5,6.0* DC reverse current (max μ A): 1.0, 5.0 @DC reverse voltage (V): 150 Switching time (ns): 25, 30 respectively IFSM= 35, 125 A (pk); Io= 1.0, 3.0 respectively. Operating Temperature Range (°C.): -65 to +175. * pulsed	MIL-S-19500/477	D-5B	MICROSEMI SCOTTSDALE	
2	1N5811US	Silicon, Power Rectifier, Fast Recovery. DC forward voltage (max V): 0.975 @ DC forward current (pk A): 2.5 DC reverse current (max μ A): 5.0 @ DC reverse voltage (V):150. Switching time (ns): 30; IFSM=125 A (pk); Io=3.0 A (t=55°C.) Operating Temperature range (°C.): -65 to +175.	MIL-S-19500/477	MELF	Sensitron Semiconductor Inc.	Sensitron spec. 7700-4091 for JANS-equivalent screening flow
1	BYV52-200	Single, Ultra Fast Power Rectifier, 200 V, 30 A Operating Temperature range : -55 to +150 °C Storage Temperature Range : -55 to +150 °C Dimensions (mm, max.) : 20.07 x 13.59 x 6.3	ESCC 5103/030	T0254	STMicroelectronics	

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	BYV54-200	Single, Ultra Fast Power Rectifier, 200 V, 60 A Operating Temperature range : -55 to +150 °C Storage Temperature Range : -55 to +150 °C Dimensions (mm, max.) : 20.07 x 13.59 x 6.3	ESCC 5103/031	TO254	STMicroelectronics	MANUFACTURER'S SPECIFICATION COMPLIANT WITH ECSS-Q-60A PARA. 3.4.1
1	BYW81-200	Dual, Ultra Fast Power Rectifier 200 V, 2x15 A Operating Temperature range : -55 to +150 °C Storage Temperature Range : -55 to +150 °C Available in Common Anode, Common Cathode and Doubler configuration Dimensions (mm, max.) : 20.07 x 13.59 x 6.3	ESCC 5103/029	TO254	STMicroelectronics	
1	STPS20H100	Dual, Power Schottky, 100 V, 2x20 A Operating Temperature Range : -55 to +175 °C Storage Temperature Range : -55 to +175 °C Available in Common Anode, Common Cathode and Doubler configuration Dimensions (mm, max.) : 20.07 x 13.59 x 6.3	ESCC 5106/016	TO254	STMicroelectronics	

04 DIODES / 03 VOLTAGE REGULATOR

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	1N4099UR-1 thru 1N4135UR-1	Silicon, Voltage regulator, Low noise. DC forward voltage (max V): 1.1 @max. forward current : 200 mA Regulator voltage (nom V): 6.8 to 100 @Iz=250 uA dc Voltage tolerance: ± 5% Power (W): 0.5 at Tec= 125°C. Operating Temperature Range (°C.): -65 to +175	MIL-S-19500/435	DO-213AA	MICROSEMI LAWRENCE	
1	1N4464 thru 1N4496	Silicon, Voltage Regulator. DC forward voltage (max V): 1.5 @max. forward current : 1 A Nominal Zener volt. (V): 9.1 - 200 @ Nom. Iz (mA): 28.0 - 1.2 Zener tolerance (V): 0.35 - 10.0 Power (W): 1.5 Operating Temperature Range (°C.): -55 to +175	MIL-S-19500/406	A1	MICROSEMI SCOTTSDALE	
1	1N4954 thru 1N4992	Silicon, Voltage Regulator. DC forward voltage (max V): 1.5 @max. forward current : 1 A Nominal Zener volt. (V): 6.8 - 270 @ Nom. Iz (mA): 175.0 - 5.0 Voltage Regulation (V): 0.7 - 25.0 Power (W): 5.0 at Tl= +65°C. Operating Temperature Range (°C.): -55 to +175	MIL-PRF-19500/356	A248	MICROSEMI SCOTTSDALE	
2	1N6309 thru 1N6319	Silicon, Zener, Voltage regulator, Solid glass noncavity constr. DC forward voltage(max V):1.4 @max If = 1 A* dc Nom. Vz (V): 2.4 to 6.2 @ Nom. Iz (mA): 20 Zener tolerance: ± 5% Power (W): 0.5 at Tl=+75°C. Operating Temperature Range (°C.): -65 to +175 *pulsed	MIL-S-19500/533	DO-35	MICROSEMI SCOTTSDALE	
1	1N6309 thru 1N6319	Silicon, Zener, Voltage regulator, Solid glass noncavity constr. DC forward voltage(max V):1.4 @max If = 1 A* dc Nom. Vz (V): 2.4 to 6.2 @ Nom. Iz (mA): 20 Zener tolerance: ± 5% Power (W): 0.5 at Tl=+75°C. Operating Temperature Range (°C.): -65 to +175 *pulsed	MIL-S-19500/533	DO-35	MICROSEMI LAWRENCE	
2	1N6309US thru 1N6319US	Silicon, Zener, Voltage regulator, Solid glass noncavity constr. DC forward voltage(max V):1.4 @max If = 1 A* dc Nom. Vz (V): 2.4 to 6.2 @ Nom. Iz (mA): 20 Zener tolerance: ± 5% Power (W): 0.5 at Tec=+125°C. Operating Temperature Range (°C.): -65 to +175 *pulsed	MIL-S-19500/533	SMD	MICROSEMI SCOTTSDALE	

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	1N6309US thru 1N6319US	Silicon, Zener, Voltage regulator, Solid glass noncavity constr. DC forward voltage(max V):1.4 @max If = 1 A* dc Nom. Vz (V): 2.4 to 6.2 @ Nom. Iz (mA): 20 Zener tolerance: ± 5% Power (W): 0.5 at Tec=+125°C. Operating Temperature Range (°C.): -65 to +175 *pulsed	MIL-S-19500/533	SMD	MICROSEMI LAWRENCE	
1	1N6320 thru 1N6336	Silicon, Zener, Voltage Regulator, Solid glass noncavity constr. DC forward voltage (max V): 1.4 @max. forward current : 1 A* dc Nominal Zener volt. (V): 6.8 - 33.0 @ Nom. Iz (mA): 20.0 - 3.8 Zener tolerance: ± 5% Power (W): 0.5 at Tl= +75°C. Operating Temperature Range (°C.): -65 to +175 *pulsed	MIL-S-19500/533	DO-204	MICROSEMI SCOTTSDALE	
1	1N6320US thru 1N6336US	Silicon, Zener, Voltage Regulator, Solid glass noncavity constr. DC forward voltage (max V): 1.4 @max. forward current : 1 A* dc Nominal Zener volt. (V): 6.8 - 33.0 @ Nom. Iz (mA): 20.0 - 3.8 Zener tolerance: ± 5% Power (W): 0.5 at Tl= +75°C. Operating Temperature Range (°C.): -65 to +175 *pulsed	MIL-S-19500/533	MELF	MICROSEMI SCOTTSDALE	

04 DIODES | 04 VOLTAGE REFERENCE/ZENER

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	1N4568AUR-1	Silicon, Low level, Voltage-reference. Nominal Zener Voltage (V): 6.4 @max. forward current (mA): 0.5±0.01 to 4.0±0.01 Zener tolerance: ±5% Power (W): 0.475 at Ta=+25°C. Operating Temperature Range (°C.): -65 to +175	MIL-S-19500/452	DO-213AA	MICROSEMI LAWRENCE	
1	1N4614UR-1 thru 1N4627UR-1	Silicon, Low-noise Voltage regulator. DC forward voltage (max V): 1.1 @max. forward current 200 mA dc Regulator voltage (max V): 1.8 to 6.2 @Iz= 250 uA Voltage tolerance: ±5% Power (W): 0.5 at Tec=+125°C. Operating Temperature Range (°C.): -65 to +175	MIL-S-19500/435	DO-213AA	MICROSEMI LAWRENCE	

04 DIODES | 05 RF/MICROWAVE SCHOTTKY (Si)

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	1N5819UR-1	Silicon, Hermetic, Schottky barrier. DC forward voltage (max V): 0.8 @max. forward current 3.1 A (pulsed) IFSM= 24 A(pk); Io= 1.0 A at Tec= +55°C. Operating Temperature Range (°C.): -65 to +125	MIL-S-19500/586	DO-213AB	MICROSEMI LAWRENCE	
1	1N5822US	Silicon, Rectifier, Schottky barrier. DC forward voltage (max V): 0.7 @max. forward current 9.4 A* (pk) IFSM= 80 A(pk); Io= 3.0 A at Tec=+55°C. Operating Temperature Range (°C.): -65 to +150 *pulsed	MIL-S-19500/620	D-5B	MICROSEMI LAWRENCE	
1	BAS 70	Microwave, Silicon, Schottky, General purpose. DC reverse volt. (min V): -70 @Ir= 10 uA Reverse current (max nA): 100 @Vr= -56 V Forward voltage (max V): 1.0 @If= 15 mA IFSM= 85 mA (pk) Total Capacitance CT (pF): 1.2 / 2.0 (BAS 70-094 single diode) 0.08 (BAS 70-B bridge) Package (max mm): BAS 70-094 DIA 1.45 x 1.35 x 1.95 (T1 package) BAS 70-B 3.60 x 3.60 x 1.60 (HPAC-140 package) Operating Temperature Range (°C.): -55 to +150	ESCC 5512/020	HPAC-140 or T1	INFINEON TECHNOLOGIES A.G.	

04 DIODES | 08 TRANSIENT SUPPRESSION

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	1N5629A thru 1N5665A	Silicon, transient voltage suppressor. DC reverse current (max uA):1000 to 5 @Vr =5.8 to 171 Vbr (min/max V): 6.45/7.14 to 190/210 @Ibr=10 to 1 Power (W): 1.0 Operating Temperature Range (°C.): -55 to +175	MIL-S-19500/500	DO-13	MICROSEMI SCOTTSDALE	
1	1N6106A	Silicon, Bipolar transient voltage suppressor. Nominal Zener volt. (V): 9.0 @ Nom. Iz (mA): 175-40 Regulation voltage (V): ±5% (only for suffix 'A') Power(W):2.0 at Ta=+25°C. Peak Power (W): 500 for 1 ms Operating Temperature Range (°C.): -55 to +175	MIL-S-19500/516	A298	MICROSEMI SCOTTSDALE	
2	1N6124A	Silicon, bipolar transient voltage suppressor. Reverse current leakage (max uA): 1 @Vr=27.4 to 152 Breakdown voltage (min V):53 @Ibr(mA)=30 to 5 Power (W): 2.0 Peak Power (W): 500 for 1 ms Operating Temperature Range (°C.): -55 to +175	MIL-S-19500/516	E (MSCUA Outline)	MICROSEMI SCOTTSDALE	

04 DIODES / 13 RF/MICROWAVE VARACTOR (Si)

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	DH 252, DH 256, DH 267, DH 292, DH294	Microwave, Silicon, Multiplier varactor. Min. Breakdown voltage (V): -45, -40, -30, -20, -15 @ Ir= 10 uA max. Reverse Current (nA): 20 @ Vr= -10V Max. Forward Voltage (V): 0.9 @ If= 10 mA Max. Total Capacitance (pF): 0.5 to 7.2 Min. Carrier Lifetime (ns): 6 to 125 @ If= 10 mA and Ir=6.0 mA Max. Snap-off Time (ps): 60 to 400 @ If= 10 mA and Vf= 10 V Max. R.F. Power Dissipation (W): 0.5 to 1.25 Operating Temperature Range (°C.): -55 to +150	ESCC 5512/016	AS PER SPEC.	CHELTON TELECOM & MICROWAVE	
1	DH76010 thru DH760150	Microwave, Silicon, Tuning varactor, Hyper Abrupt Max. Reverse current (µA) : 10 @ Vr = -20 V. Max Forward voltage (V) : 1 @ If = 10 mA Max Total Capacitance (pF) : 0,9 - 18,30 @ Vr = -4 V, 1 MHz Min. Quality Factor : 100 - 4 @ Vr = -4 V, 1 GHz Operating Temperature Range (°C) : -55 to +150	ESCC 5512/023	M208, F27D, F30	CHELTON TELECOM & MICROWAVE	
1	ML4310 to ML4319	Microwave, Silicon, Tuning varactor Reverse current (max uA): 10 @Vr=-25V Forward voltage (max V): 1.0 @If= 100 mA Total Capacitance (max pF): 0.55 - 5.4 Quality Factor (min Q): 2750 - 1500 Operating Temperature Range (°C.): -65 to +150	ESCC 5512/003	AS PER SPEC.	TYCO ELECTRONICS	
1	ML4331 to ML4335	Microwave, Silicon, Tuning varactor Reverse current (max uA): 10 @Vr=-40V Forward voltage (max V): 1.0 @If= 100 mA Total Capacitance (max pF): 0.79 - 2.60 Quality Factor (min Q): 2000 - 1350 Operating Temperature Range (°C.): -65 to +150	ESCC 5512/004	AS PER SPEC.	TYCO ELECTRONICS	
1	ML4336 to ML4343	Microwave, Silicon, Tuning varactor Reverse current (max uA): 10 @Vr=-40V Forward voltage (max V): 1.0 @If= 100 mA Total Capacitance (max pF): 3.05 - 11.40 Quality Factor (min Q): 1350 - 800 Operating Temperature Range (°C.): -65 to +150	ESCC 5512/005	AS PER SPEC.	TYCO ELECTRONICS	

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	ML4355 to ML4365	Microwave, Silicon, Tuning varactor Reverse current (max uA): 10 @Vr=-60V Forward voltage (max V): 1.0 @If= 100 mA Total Capacitance (max pF): 2.45 - 17.10 Quality Factor (min Q): 850 - 500 Operating Temperature Range (°C.): -65 to +150	ESCC 5512/007	AS PER SPEC.	TYCO ELECTRONICS	

04 DIODES | 16 RF/MICROWAVE PIN

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	BXY42-MESA	Microwave, Silicon, PIN. Reverse current (max uA): 10 @Vr=-50V Forward voltage (max V): 1.1 @If= 100 mA Total Capacitance (max pF): 0.24 RF power (W): 0.35 (Var.-01), 0.60 (Var.-02). Minor. carrier life time (min ns): 35 @If= 10 mA Package (max mm): DIA 1.45 x 1.95 x 1.35 variant 01 DIA 1.45 x 1.35 variant 02 Operating Temperature Range (°C.): -55 to +175	ESCC 5513/017	T, T1	INFINEON TECHNOLOGIES A.G.	
1	BXY43/44	Microwave, Silicon, PIN. Reverse current (max nA): 100 @Vr=-150V (Var.-01 to -04) @Vr=-200V (Var.-05 to -08) Forward voltage (max V): 1.0 (Var.-01 to -04) @If= 100mA 1.05 (Var.-05 to -08) @If= 100mA Total Capacitance Range (pF): 0/0.35 - 0.40/0.85 Power Dissipation (W): 0.5 Operating Temperature Range (°C.): -55 to +150	ESCC 5513/030	T, T1, Teller, Pill, FlatPac k	INFINEON TECHNOLOGIES A.G.	
1	DH50151 thru DH50157	RF/MW PIN, Ultra Fast Switching, VR=-150 V. Variants 01 to 49 of detail spec.	ESCC 5513/031	M208, F27D	CHELTON TELECOM & MICROWAVE	
1	DH50201 thru DH50209	RF/MW PIN, Ultra Fast Switching, VR=-200 V. Variants 01 to 63 of detail spec.	ESCC 5513/033	M208, F27D	CHELTON TELECOM & MICROWAVE	
1	DH50251 thru DH50256	RF/MW PIN, Ultra Fast Switching, VR=-250 V. Variants 01 to 36 of detail spec.	ESCC 5513/034	M208, F27D	CHELTON TELECOM & MICROWAVE	
1	ML4610, 4617, 4618, 4619	Microwave, Silicon, PIN, Fast switching. Reverse current (max uA): 10 @Vr=-15V (Var.-01 to -25) @Vr=-100V (Var.-26 to -99) Forward voltage (max V): 1.0 @If= 100mA Total Capacitance Range (max pF): 0.2 - 1.20 Minority Carrier Lifetime (max ns): 35 @If= 10mA (Var.-01 to -25) 400 @If= 10mA (Var.-26 to -99) R.F. Power Dissipation (W): 0.2 to 3.1 Operating Temperature Range (°C.): -65 to +150	ESCC 5513/009	AS PER SPEC.	TYCO ELECTRONICS	

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	ML4622 to ML4624	<p>Microwave, Silicon, PIN, Fast switching.</p> <p>Reverse current (max uA): 10 @Vr=-150V</p> <p>Forward voltage (max V): 1.3 @If= 100mA</p> <p>Total Capacitance Range (max pF): 0.3 - 1.20</p> <p>Minority Carrier Lifetime (max ns): 700 @If= 4.5 mA</p> <p>R.F. Power Dissipation (W): 0.2 to 3.5</p> <p>Operating Temperature Range (°C.): -65 to +125 (Variant -24, -48 and -62)</p> <p style="text-align: center;">-65 to +150</p>	ESCC 5513/014	AS PER SPEC.	TYCO ELECTRONICS	
1	ML4627 to ML4629	<p>Microwave, Silicon, PIN, Fast switching.</p> <p>Reverse current (max uA): 10 @Vr=-200V</p> <p>Forward voltage (max V): 1.3 @If= 100mA</p> <p>Total Capacitance Range (max pF): 0.2 - 1.20</p> <p>Minority Carrier Lifetime (max ns): 1200 @If= 4.5 mA</p> <p>R.F. Power Dissipation (W): 0.2 to 4.1</p> <p>Operating Temperature Range (°C.): -65 to +125 (Variant -24, -48 and -62)</p> <p style="text-align: center;">-65 to +150</p>	ESCC 5513/015	AS PER SPEC.	TYCO ELECTRONICS	

05 FILTERS | 01 FEEDTHROUGH

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	SFC 030	C Filter - Electromagnetic interference suppression, hermetically sealed. Capacitance Rated Rated DC Insertion Loss Range (pF) Voltage (V) Current (A) (dB) @ 1GHz 470 to 22000 25 to 250 1.0 to 5.0 34 to 68 Size (max mm): DIA 4.10 x 16.90 Operating Temperature Range (°C): -55 to + 125	ESCC 3008/020	Axial	EUROFARAD	
1	SFC 60	C Filter - Electromagnetic interference suppression, hermetically (SCC 3008/026) and non-hermetically (SCC 3008/033) sealed. Capacitance Rated Rated DC Insertion Loss Range (pF) Voltage (V) Current (A) (dB) @ 1GHz 680 to 220000 25 to 200 10 37 to 70 Size (max mm): DIA 6 x 20 (hermetically sealed) Size (max mm): DIA 6 x 32 (non-hermetically sealed) Operating Temperature Range (°C): -55 to + 125	ESCC 3008/026 - 3008/033	Axial	EUROFARAD	
1	SFCMS 35	Capacitor Filter, Electromagnetic Interference Suppression PI, C, L and T configurations Operating temperature range: -55 to +125 °C	ESCC 3008/034 (C), 3008/035 (T), 3008/036 (L), 3008/037 (PI)	SMD	EUROFARAD	
1	SFL 100	L Filter - Electromagnetic interference suppression, hermetically sealed Capacitance Rated Rated DC Insertion Loss Range (uF) Voltage (V) Current (A) (dB) @ 1GHz 0.0176 to 1.6 40 to 300 5, 10, 15 57 to 70 Size (max mm) : DIA 9.90 x 27.30 Operating Temperature Range (°C): -55 to + 125	ESCC 3008/029	Axial	EUROFARAD	
1	SFP 035	Pi Filter - Electromagnetic interference suppression, non hermetically sealed. Capacitance Rated Rated DC Insertion loss Range (pF) Voltage (V) Current (A) (dB) @ 1GHz 3520 to 35200 35 to 200 10 50/55 to 70/70 (*) (*) With no current applied / With current applied Size (max mm): DIA 4.1 x 25 Operating Temperature Range (°C): -55 to + 125	ESCC 3008/025	Axial	EUROFARAD	

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	SFP 040	Pi Filter - Electromagnetic interference suppression, non hermetically sealed. Capacitance Rated Rated DC Insertion loss Range(pF) Voltage (V) Current (A) (dB) @ 1GHz 750 to 44800 100,200,250 10 (DC/LF) 40/35 to 75/75 (*) (*) With no current applied / With current applied Size (max mm): DIA 5 x 31 Operating Temperature Range (°C): -55 to + 125	ESCC 3008/014	Axial	EUROFARAD	
1	SFP 060	Pi Filter - Electromagnetic interference suppression, hermetically sealed. Capacitance Rated Rated DC Insertion loss Range (pF) Voltage (V) Current (A) (dB) @ 1GHz 2400 to 89600 35 to 500 10 65 to 75 Size (max mm): DIA 7.1 x 26.5 Operating Temperature Range (°C): -55 to + 125	ESCC 3008/021 ESCC 3008/030	Axial	EUROFARAD	

07 INDUCTORS | 03 CHIP

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	MSCI 10000	RF, Moulded, Surface mount. Inductance Range (uH) Tol. (%) Rated DC Current (mA) Q min 0.010 to 10 10 750 to 87 60 to 42 Dielectric withstanding voltage (Vrms): 200 Size (max mm): 2.67 x 2.80 x 2.16 Operating Temperature Range (°C.): -55 to +125.	ESCC 3201/008	SMD	MICROSPIRE	
1	MSCI 12000	RF, Moulded, Surface mount. Inductance Range (uH) Tol. (%) Rated DC Current (mA) Q min 12 to 1000 10 110 to 15 37 to 12 Dielectric withstanding voltage (Vrms): 200 Size (max mm): 2.67 x 2.80 x 2.54 Operating Temperature Range (°C.): -55 to +125.	ESCC 3201/008	SMD	MICROSPIRE	
1	MSCI 20000	RF, Moulded, Surface mount. Inductance Range (uH) Tol. (%) Rated DC Current (mA) Q min 0.010 to 1000 10 1000 to 25 75 to 30 Dielectric withstanding voltage (Vrms): 200 Size (max mm): 3.38 x 4.14 x 3.30 Operating Temperature Range (°C.): -55 to +125.	ESCC 3201/008	SMD	MICROSPIRE	

07 INDUCTORS | 99 MISCELLANEOUS

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	SESI 15	Power, Moulded, Surface mount. Inductance Range (uH) Tol. (%) Rated DC Current (mA) 1.5 to 330 10 14 to 0.74 Dielectric withstanding voltage (Vrms): 500 Size (max mm): 16.0 x 16.5 x 7.5 Operating Temperature Range (°C.): -55 to +125.	ESCC 3201/009	SMD	MICROSPIRE	
1	SESI 9.1	Power, Moulded, Surface mount. Inductance Range (uH) Tol. (%) Rated DC Current (mA) 1 to 1000 10 6.0 to 0.2 Dielectric withstanding voltage (Vrms): 500 Size (max mm): 10.7 x 10.6 x 5.8 Operating Temperature Range (°C.): -55 to +125.	ESCC 3201/009	SMD	MICROSPIRE	

08 MICROCIRCUITS | 10 MICROPROCESS/MICROCONTROL /PERIPHER

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	80C32	Microcontroller, 8-Bit, CMOS	ESCC 9521/002	DIL-LCC	ATMEL	Also available with SMD/5962-00518
1	AT7908E	CAN Controller Programmable MCU 8-bit general-purpose interface Operating temperature range -55 to +125 °C	SMD/5962-03A06	MLCC 44	ATMEL	ESCC specification under issueing
1	TSC21020F	32 bit floating point DSP	ESCC 9512/002	QUAD FLAT- PACK 256 pins	ATMEL	Also available with SMD/5962-99539
1	TSC695F	Single chip, 32 bit, SPARC Microprocessor Process SCMOS3/2RTP Operating temperature range : -55 / +125 °C	ESCC 9512/003	QFP 256	ATMEL	Also available with SMD/5962-00540
1	TSC695FL	Single chip, 32 bit, SPARC Microprocessor Specified at 3.3 V with 12 MIPS Process SCMOS3/2RTP Operating temperature range : -55 / +125 °C	SMD/5962-03246	MQFP256	ATMEL	

08 MICROCIRCUITS | 20 MEMORY SRAM

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	AT60142F	3.3 V 512Kx8 SRAM High speed, rad-hard version Operating temperature range : -55 / +125 °C	SMD/5962-02508	FP36	ATMEL	SEE behaviour should be verified where necessary
1	AT60142FT	5 V tolerant 512Kx8 SRAM High speed, rad-hard version Operating temperature range : -55 / +125 °C	SMD/5962-05208	FP36	ATMEL	
1	AT68166FT	MCM hosting 4 die of AT60142FT (3.3 V bias, 5 V tolerant 512Kx8 SRAM, EPPL Part 1) Operating temperature range: -55 / +125 °C	SMD/5962-06229	MQFPFT 68	ATMEL	
1	SMDJ-65608EV-30	128Kx8 SRAM Variant 06 of ESCC 9301/047	ESCC 9301/047	FP-32	ATMEL	Also available with SMD/5962-89598
1	SMDP-65609E	3.3 V 128Kx8 SRAM Operating temperature range : -55 / +125 °C	SMD/5962-02501	FP 32	ATMEL	ESCC Detail Specification under issueing

08 MICROCIRCUITS | 22 MEMORY PROM

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	HS6664RH	CMOS, Programmable Read Only Memory, Radiation Hardness 65.536 (8192 x 8) Bits with Three State Outputs	SMD/5962-95626	DIL, FP	INTERSIL	

08 MICROCIRCUITS | 29 MEMORY OTHERS

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	67204H	4Kx9 FIFO Operating temperature range: -55 to +125 °C	ESCC 9301/049	FP-28	ATMEL	Also available with SMD/5962-89568
1	672061H	16Kx9 FIFO + Programmable HFF Operating temperature range: -55 to +125 °C	ESCC 9301/048	FP-28	ATMEL	Also available with SMD/5962-93177
1	67206H	16Kx9 FIFO + Programmable HFF Operating temperature range: -55 to +125 °C	ESCC 9301/048	FP-28	ATMEL	Also available with SMD/5962-93177
1	SMK2-67025EV	8Kx16 DPRAM Variant 01 of SCC034 Detail Specification	ESCC 9301/050	QUAD FLAT- PACK 84 pins	ATMEL	Also available with SMD/5962-91617

08 MICROCIRCUITS | 30 PROGRAMMABLE LOGIC

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	AT40KEL040	40k Gates SEU hardened reprogrammable FPGA DSP Optimized Core Cell and Distributed FreeRam, Enhanced Performance Improvement and Bi-directional I/Os (3.3 V) Operating temperature range: -55 to +125 °C	ESCC 9301/051	MQFP 160	ATMEL	Also available with SMD/5962- 03250

08 MICROCIRCUITS | 40 ASIC TECHNOLOGIES DIGITAL

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	ATC18RHA	<p>0.18u CMOS ASIC standard cell library with predefined matrix sizes:</p> <p>ATC18RHA95_216 allowing to integrate typically 1Mgates ATC18RHA95_324 allowing to integrate typically 2.2Mgates ATC18RHA95_404 allowing to integrate typically 3.5Mgates ATC18RHA95_504 allowing to integrate typically 5.5Mgates</p> <p>Predefined combinations of matrix and package: 196 to 352 MQFP, 349 to 472 MCGA</p> <p>Operating temperature range : -55 / +125 C</p>	Draft SMD	MQFP, MCGA	ATMEL	
2	MAT53/ASP22	<p>MIL-STD-1553B Bus Controller, Remote Terminal Coupler, Bus Monitor ASIC CMOS MCR 35K Gate Array technology Operational Rated Temperature -55 to +125 °C</p>	<p>MA-9000- AOMERC32.MCM.SP. 12.V.MMS iss02 rev00 14/10/02</p>	Metalli c FP-64	ATMEL	
1	MG2RT sea of gates	<p>Sea of gates with up to 360k available gates MQ type flat package up to 352 pins Matrices : MG2091E MG2265E MG2480E Operating temperature range : -55 to +125 °C Storage temperature range : -65 to +150 °C</p>	SMD/5962-00B02	MQFP	ATMEL	ASIC-SCC-TEMP. template to be used for the detail specifications to be written for the ASIC's
1	MG2RTP sea of gates	<p>Sea of gates with up to 270k available gates with 300Krad TID tolerance MQ type flat package up to 352 pins Matrices : MG2044P MG2142P Operating temperature range : -55 to +125 °C Storage temperature range : -65 to +150 °C</p>	<p>SMD/5962-00B03; SMD/5962-03B01</p>	MQFP	ATMEL	ASIC-SCC-TEMP. template to be used for the detail specifications to be written for the ASIC's

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	MH1RT	Sea of gates with up to 1600K available gates with embedded blocks option Available matrices : MH1099E (520K used gates) MH1156E (760K used gates) MH1242E (1190K used gates) MH1332E (1640K used gates) Operating temperature range : -55 / +125 °C Storage temperature range : -65 / +150 °C	SMD-5962-01B01	MQFP	ATMEL	

08 MICROCIRCUITS | 50 LINEAR OPERATIONAL AMPLIFIER

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	AD847	Operational Amplifier, High Speed, Low Power	SMD/5962-89647	DIL	ANALOG DEVICES	
2	JL1558S	Dual, Internally Compensated Operational Amplifier	MIL-M-38510/101	Metal Can	NATIONAL SEMICONDUCTOR	
1	LF155	JFET Input, Low Power Operational Amplifier	MIL-M-38510/114	DIL Metal Can	LINEAR TECHNOLOGY	
1	LF156	JFET Input, Wide Band Operational Amplifier	MIL-M-38510/114	DIL Metal Can	LINEAR TECHNOLOGY	
1	LM108A	Single, Externally Compensated Operational Amplifier	SMD/5962-98637	FP	NATIONAL SEMICONDUCTOR	
1	LM118	Precision, High Speed Operational Amplifier	MIL-M-38510/101	FP	LINEAR TECHNOLOGY	
1	LM124A	Low Power Quad Bipolar Operational Amplifier Operating temperature range: -55 / +125 °C	SMD/5962-99504	FP-14	NATIONAL SEMICONDUCTOR	
1	OP27A	Single, Ultra-Low Noise and Offset, Internally Compensated Operational Amplifier	SMD/5962-94680	DIL Metal Can	ANALOG DEVICES	
1	OP470AY	Operational Amplifier, Quad, Very Low Noise	SMD/5962-88565	DIL	ANALOG DEVICES	
1	OP77	Ultra low offset Voltage Operational Amplifier (replacement of OP-07 and OP-108A).	SMD/5962-87738	LCC20 FP10	ANALOG DEVICES	

08 MICROCIRCUITS | 52 LINEAR VOLTAGE REGULATOR

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	AD584TH	Voltage Reference, Precision Pin Programmable	SMD/5962-38128	Metal Can	ANALOG DEVICES	
1	LM117H	3-Terminal Adjustable Positive Regulator, 0.5A	SMD/5962-99517	TO-39	NATIONAL SEMICONDUCTOR	
1	LM117K	3-Terminal Adjustable Positive Regulator, 1.5A	SMD/5962-99517	TO-3	NATIONAL SEMICONDUCTOR	
1	LM137H	3 Terminal Adjustable Negative Regulator, 0.5A	SMD/5962-99517	TO-39	NATIONAL SEMICONDUCTOR	
1	LM137K	3 Terminal Adjustable Negative Regulator, 1.5A	SMD/5962-99517	TO-3	NATIONAL SEMICONDUCTOR	
1	LT1009	Precision Trimmed 2.500 Volts Shunt Regulator diode, max. initial tolerance ± 5 mV; interchangeable with LM136 for improved performance.	MIL-M-38510/148	TO-46 (Metal Can)	LINEAR TECHNOLOGY	
1	RH-L4913 2.5 V	Fixed, Positive, 2.5 V, 2A Operating temperature range: -55 / +125 °C	SMD/5962-02534	FP16, SMD.5	STMicroelectronics	
1	RH-L4913 3.3 V	Fixed, Positive, 3.3 V, 2A Operating temperature range: -55 / +125 °C	SMD/5962-02535	FP16, SMD.5	STMicroelectronics	
1	RH-L4913 5 V	Fixed, Positive, 5 V, 2A Operating temperature range: -55 / +125 °C	SMD/5962-02536	FP16, SMD.5	STMicroelectronics	
1	RH-L4913 ADJ	Adjustable, Positive, Low Dropout, 2A Operating temperature range: -55 / +125 °C	SMD/5962-02524	FP16	STMicroelectronics	
1	RH-L7913	Adjustable, Negative, Low Dropout, 2A Operating temperature range: -55 / +125 C	SMD/5962-02532	FP-16	STMicroelectronics	

08 MICROCIRCUITS | 53 LINEAR VOLTAGE COMPARATOR

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	LM111	Voltage Comparator/Buffer, Precision	SMD/5962-00524	Metal Can	NATIONAL SEMICONDUCTOR	
1	LM119	Dual, High Speed Voltage Comparator	SMD/5962-96798	FP	NATIONAL SEMICONDUCTOR	
1	LM139AWG	Quad, Single Supply, Low Power Voltage Comparator	SMD/5962-96738	FP	NATIONAL SEMICONDUCTOR	
1	LM193	Dual, Low Power, Low Offset Voltage Comparator	SMD/5962-94526	FP	NATIONAL SEMICONDUCTOR	

08 MICROCIRCUITS | 54 LINEAR SWITCHING REGULATOR

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	SG1524	Regulating Pulse Width Modulator	SMD/5962-87645	DIL	MICROSEMI INTEGRATED PRODUCTS	

08 MICROCIRCUITS | 55 LINEAR LINE DRIVER

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	HS-26C31RH	Quad EIA RS422, Radiation Hardened CMOS, Differential Driver, with 3-State Output	SMD/5962-96663	DIL, FP	INTERSIL	
1	HS-26CT31RH	Quad EIA RS422, Radiation Hardened CMOS, Differential Driver, TTL Compatible	SMD/5962-95632	DIL, FP	INTERSIL	

08 MICROCIRCUITS | 56 LINEAR LINE RECEIVER

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	HS-26C32RH	Quad EIA RS422, Radiation Hardened CMOS, Differential Receiver, with 3-State Output	SMD/5962-95689	DIL, FP	INTERSIL	
1	HS-26CT32RH	Quad EIA RS422, Radiation Hardened CMOS, Differential Receiver, TTL Compatible	SMD/5962-95631	DIL, FP	INTERSIL	

08 MICROCIRCUITS | 57 LINEAR TIMER

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	JL555SPA/SGA	Single Precision Timer	MIL-M-38510/109	DIL, Metal Can	NATIONAL SEMICONDUCTOR	

08 MICROCIRCUITS | 59 LINEAR SWITCHES

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	HS-201HSRH	Analog Switch, High speed, Quad, SPST, Radiation Hardened CMOS Operating temperature range: -55 / +125 °C	SMD/5962-99618	FP-16 Chip	INTERSIL	
1	HS-302RH	Analog Switch, Dual, DPST, Radiation Hardened CMOS	SMD/5962-95812	FP-Chip	INTERSIL	

08 MICROCIRCUITS | 60 LINEAR MULTIPLEXERS / DEMULTIPLEXER

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	HI-546	Multiplexer, 16-Channel, with Active Overvoltage Protection	SMD/5962-85131	DIL	INTERSIL	
1	HS-508BRH	Analog Multiplexer/Demultiplexer, 8 Channel, with Overvoltage Protection Radiation Hardened CMOS	SMD/5962-96742	FP	INTERSIL	

08 MICROCIRCUITS | 61 LINEAR ANALOG TO DIGITAL CONVERTER

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	AD1671S	A/D Converter, 12-Bit, 1.25 MSPS	SMD/5962-93126	DIL	ANALOG DEVICES	
1	AD574AT	A/D Converter, 12-Bit, High Speed, with Microprocessor Interface	SMD 5962-85127	FP	ANALOG DEVICES	
2	AD674B	A/D Converter, 12-Bit, High Speed, with Microprocessor Interface	SMD 5962-91690	DIL	ANALOG DEVICES	

08 MICROCIRCUITS | 62 LINEAR DIGITAL TO ANALOG CONVERTER

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	AD767S	D/A Converter, 12-Bit, with Microprocessor Interface, Internal Reference and Output Amplifier	SMD/5962-89617	DIL	ANALOG DEVICES	
1	DAC08	8-Bit D/A Converters, 0.19% Linearity	SMD/5962-89932	DIL	ANALOG DEVICES	

08 MICROCIRCUITS | 69 LINEAR OTHER FUNCTIONS

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	AD590M	Temperature Transducer, Two Terminals Forward voltage (E+ to E-)(Vdc): +44 Forward voltage (E- to E+)(Vdc): -20 Breakdown voltage (Case to E+ or E-)(Vdc): ± 200 Rated performance temperature range (°C.): -55 to +150	SMD/5962-87571	FP	ANALOG DEVICES	
1	UC1707	High Speed Schottky, Dual Channel Power Driver.	SMD/5962-87619	DIL16 LCC20	TEXAS INSTRUMENTS - UNITRODE	

08 MICROCIRCUITS | 80 LOGIC FAMILIES

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	4001B	QUAD 2-INPUT NOR GATE	ESCC 9201/041	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	40103B	PRESETTABLE 8-BIT SYNCHRONOUS DOWN-COUNTER	ESCC 9204/036	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	40105B	FIFO REGISTER WITH 3-STATE OUTPUT	ESCC 9306/033	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	40106B	HEX SCHMITT TRIGGER	ESCC 9409/005	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	40107B	DUAL 2-INPUT NAND BUFFER / DRIVER	ESCC 9401/013	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	40109B	QUAD LOW-TO-HIGH 3-STATE VOLTAGE LEVEL SHIFTER	ESCC 9407/003	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4011B	QUAD 2 INPUT NAND GATE	ESCC 9201/043	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4013B	DUAL D-TYPE FLIP-FLOP	ESCC 9203/023	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4014B	8-STAGE SYNCHRONOUS STATIC SHIFT REGISTER	ESCC 9306/014	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4015B	DUAL 4-STAGE STATIC SHIFT REGISTER WITH SERIAL INPUT / PARALLEL OUTPUT	ESCC 9306/015	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	40161B	PROGRAMMABLE 4-BIT BINARY COUNTER WITH ASYNCHRONOUS CLEAR	ESCC 9204/054	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	40174B	HEX D-TYPE FLIP-FLOP	ESCC 9203/038	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4017B	DECADE COUNTER / DIVIDER	ESCC 9204/020	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4019B	QUAD AND/OR SELECT GATE	ESCC 9202/051	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4020B	14-STAGE RIPPLE CARRY BINARY COUNTER / DIVIDER	ESCC 9204/022	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4021B	8-STAGE STATIC SHIFT REGISTER	ESCC 9306/016	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4023B	TRIPLE 3-INPUT NAND GATE	ESCC 9201/045	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	4024B	7-STAGE RIPPLE CARRY BINARY COUNTER / DIVIDER	ESCC 9204/024	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4027B	DUAL J-K MASTER-SLAVE FLIP-FLOP	ESCC 9203/022	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4028B	BCD-TO-DECIMAL OR BINARY-TO-OCTAL DECODER	ESCC 9205/010	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4029B	PRESETTABLE UP/DOWN COUNTER BINARY OR BCD DECADE	ESCC 9204/025	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4030B	QUAD 2-INPUT EXCLUSIVE OR GATE	ESCC 9201/047	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4035B	4-BIT UNIVERSAL SHIFT REGISTER	ESCC 9306/018	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	4040B	12-STAGE RIPPLE CARRY BINARY COUNTER / DIVIDER	ESCC 9204/026	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4047B	LOW POWER MONOSTABLE / ASTABLE MULTIVIBRATOR	ESCC 9207/003	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4049UB	HEX BUFFER-CONVERTER (INVERTING TYPE)	ESCC 9202/045	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4050B	HEX BUFFER-CONVERTER (NON-INVERTING TYPE)	ESCC 9202/046	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4051B	ANALOGUE MULTIPLEXER / DEMULTIPLEXER	ESCC 9202/047	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4063B	4-BIT MAGNITUDE COMPARATOR	ESCC 9209/001	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	4066B	QUAD BILATERAL SWITCH	ESCC 9408/005	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4069UB	HEX INVERTER	ESCC 9401/010	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4071B	QUAD 2-INPUT OR GATE	ESCC 9201/063	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4073B	TRIPLE 3-INPUT AND GATE	ESCC 9201/064	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4076B	4-BIT D TYPE REGISTER WITH 3-STATE OUTPUT	ESCC 9306/022	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4081B	8 INPUT OR-NOR GATE	ESCC 9201/052	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	4093B	QUAD 2 INPUT NAND GATE WITH SCHMITT TRIGGER INPUT	ESCC 9409/002	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4094B	8-STAGE SHIFT AND STORE BUS REGISTER WITH SYNCHRONOUS SERIAL OUTPUTS AND 3-STATE PARALLEL OUTPUT	ESCC 9306/026	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4098B	DUAL MONOSTABLE MULTIVIBRATOR	ESCC 9206/003	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4099B	8-BIT ADDRESSABLE LATCH	ESCC 9202/058	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4502B	STROBED HEX INVERTER / BUFFER	ESCC 9401/006	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4503B	HEX NON-INVERTING BUFFER WITH 3-STATE OUTPUT	ESCC 9401/030	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	4508B	DUAL 4-BIT LATCH WITH 3-STATE OUTPUT	ESCC 9202/063	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4512B	8-CHANNEL MULTIPLEXER WITH 3-STATE OUTPUT	ESCC 9408/006	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	4555B	DUAL 1-OF-4 DECODER / DEMULTIPLEXER	ESCC 9408/011	FP LCC	STMicroelectronics	100 kRad(Si) TID test performed on each wafer lot i.a.w. ST internal procedure
1	54AC00	Quad 2-Input NAND Gate	SMD/5962-87549	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54AC02	Quad 2-Input NOR Gate	SMD/5962-87612	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54AC04	Hex Inverter	SMD/5962-87609	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	54AC08	Quad 2-Input AND Gate	SMD/5962-87615	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54AC10	Triple 3-Input NAND Gate	SMD/5962-87610	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54AC11	Triple 3-Input AND Gate	SMD/5962-87611	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54AC138	Decoder/Demultiplexer, 3-to-8 line	SMD/5962-87622	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54AC139	Dual 2 To 4 Line Decoder/Demultiplexer, with Inverted Outputs	SMD/5962-87632	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54AC14	Hex Schmitt Trigger Inverter	SMD/5962-87624	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	54AC157	Quad 2-Input Multiplexer	SMD/5962-89539	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54AC161	Synchronous 4-Bit Binary Counter	SMD/5962-89561	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54AC16244	16 bit Buffer/Driver with three-state outputs	SMD/5962-04210	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54AC240	Octal Bus Buffer with Inverted 3-State Outputs	SMD/5962-87550	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54AC244	Octal Buffer/Line Driver with 3-State Outputs	SMD/5962-87552	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54AC245	Bus Transceiver, 8-Bit, Bidirectional, with 3-State Inputs/Outputs	SMD/5962-87758	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	54AC273	Octal D-Type Flip-Flop with Clear	SMD/5962-87756	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54AC299	8-Bit Universal Shift Register with Common Parallel I/O Pins	SMD/5962-88754	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54AC32	Quad 2-Input OR Gate	SMD/5962-87614	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54AC373	Octal D-Type Transparent Latches with 3-State Outputs	SMD/5962-87555	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54AC374	Octal D-Type Flip-Flop with 3-State Outputs	SMD/5962-87694	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54AC541	Octal Bus Buffer with 3-State Outputs	SMD/5962-88706	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	54AC74	Octal D-Type Flip-Flop with 3-State Outputs	SMD/5962-88520	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54AC86	Quad 2-Input Exclusive OR Gate	SMD/5962-89550	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54ACT00	Quad 2-Input NAND Gate, with TTL Compatible Inputs	SMD/5962-87699	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54ACT240	Octal Bus Buffer with Inverted 3-State Outputs, TTL Compatible Inputs	SMD/5962-87759	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54ACT244	Octal Buffer/Line Driver with 3-State Outputs, TTL Compatible Inputs	SMD/5962-87760	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54ACT245	Octal Bidirectional Transceiver with 3-State Outputs, TTL Compatible Inputs	SMD/5962-87663	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	54ACT574	Octal D-Type Flip-Flop with 3-State Outputs, TTL Compatible Inputs	SMD/5962-89601	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54ACT86	Quad 2-Input Exclusive OR Gate, TTL Compatible Inputs	SMD/5962-89550	FP	STMicroelectronics	Depending on the application, a Radiation Verification Test may be necessary
1	54HC00	Quad 2-Input NAND Gate	ESCC 9201/105	FP LCC	STMicroelectronics	
1	54HC02	Quad 2-Input NOR Gate	ESCC 9201/113	FP LCC	STMicroelectronics	
1	54HC03	Quad 2-Input Nand Gate with Open Drain Output	ESCC 9201/114	FP LCC	STMicroelectronics	
1	54HC04	Hex Inverter	ESCC 9401/033	FP LCC	STMicroelectronics	
1	54HC08	Quad 2-Input Positive AND Gate	ESCC 9201/106	FP LCC	STMicroelectronics	
1	54HC10	Triple 3-Input NAND Gate	ESCC 9201/107	FP LCC	STMicroelectronics	
1	54HC109	Dual J-K Positive Edge Triggered Flip-Flop with Preset and Clear	ESCC 9306/048	FP LCC	STMicroelectronics	
1	54HC11	Triple 3-Input AND Gate	ESCC 9201/117	FP LCC	STMicroelectronics	
1	54HC125	Quad Bus Buffers with 3 State Outputs	ESCC 9401/039	FP LCC	STMicroelectronics	
1	54HC132	Quad 2-Input NAND Gate with Schmitt-trigger Inputs	ESCC 9201/120	FP LCC	STMicroelectronics	

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	54HC138	3-to-8 Line Decoders/Demultiplexers with Inverted Outputs	ESCC 9408/046	FP LCC	STMicroelectronics	
1	54HC139	Dual 2-to-4-line Decoders/Demultiplexers with Inverted Outputs	ESCC 9205/017	FP LCC	STMicroelectronics	
1	54HC14	Hex Schmitt Trigger Inverter	ESCC 9409/007	FP LCC	STMicroelectronics	
1	54HC151	8-line to 1-line Data Selectors/Multiplexer	ESCC 9408/054	FP LCC	STMicroelectronics	
1	54HC154	4-to-6 Line Decoder/Demultiplexer with Inverted Output	ESCC 9205/023	FP LCC	STMicroelectronics	
1	54HC157	Quad 2-line to 1-line Data Selectors/Multiplexers	ESCC 9408/057	FP LCC	STMicroelectronics	
1	54HC158	Quad 2-to-1-Line Data Selectors/Multiplexers with Inverted Outputs	ESCC 9408/059	FP LCC	STMicroelectronics	
1	54HC161	Asynchronous 4-Bit Binary Counter	ESCC 9204/059	FP LCC	STMicroelectronics	
1	54HC163	Synchronous 4-Bit Binary Counter	ESCC 9204/073	FP LCC	STMicroelectronics	
1	54HC164	8-bit Sipo Shift Register	ESCC 9306/041	FP LCC	STMicroelectronics	
1	54HC165	8-bit Sipo Shift Register	ESCC 9306/042	FP LCC	STMicroelectronics	
1	54HC166	8-bit Pipo Shift Register	ESCC 9306/043	FP LCC	STMicroelectronics	
1	54HC174	Hex D-Type Edge-triggered Flip-Flop with Clear	ESCC 9306/052	FP LCC	STMicroelectronics	
1	54HC175	Quad D-Type Edge-triggered Flip-Flop with Clear	ESCC 9203/052	FP LCC	STMicroelectronics	
1	54HC191	Synchronous 4-Bit Up/Down Binary Counter	ESCC 9204/066	FP LCC	STMicroelectronics	

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	54HC193	Synchronous 4-Bit Up/Down Binary Counter (Dual Clock with Clear)	ESCC 9204/065	FP LCC	STMicroelectronics	
1	54HC20	Dual 4-Input NAND Gate	ESCC 9201/118	FP LCC	STMicroelectronics	
1	54HC21	Dual 4-Input AND Gate	ESCC 9201/108	FP LCC	STMicroelectronics	
1	54HC237	3-to-8-Line Decoder/Demultiplexer with Address Latch	ESCC 9205/021	FP LCC	STMicroelectronics	
1	54HC240	Octal Bus Buffer with Inverted 3-State Outputs	ESCC 9401/034	FP LCC	STMicroelectronics	
1	54HC244	Octal Bus Buffer with 3-State Outputs	ESCC 9401/048	FP LCC	STMicroelectronics	
1	54HC245	Octal Bus Transceiver with 3-State Outputs	ESCC 9405/013	FP LCC	STMicroelectronics	
1	54HC257	Quad 2-to-1-Line Data Selector/Multiplexer with 3-State Outputs	ESCC 9408/047	FP LCC	STMicroelectronics	
1	54HC27	Triple 3-Input NOR Gate	ESCC 9201/109	FP LCC	STMicroelectronics	
1	54HC273	Octal D-Type Edge-triggered Flip-Flop with Clear	ESCC 9203/053	FP LCC	STMicroelectronics	
1	54HC283	4-Bit Binary Full Adders with Fast Carry	ESCC 9202/075	FP LCC	STMicroelectronics	
1	54HC32	Quad 2-Input OR Gate	ESCC 9201/111	FP LCC	STMicroelectronics	
1	54HC373	Octal D-Type Transparent Latches with 3-State Outputs	ESCC 9203/059	FP LCC	STMicroelectronics	
1	54HC374	Octal D-Type Edge-triggered Flip-Flop with 3-State Outputs	ESCC 9203/060	FP LCC	STMicroelectronics	
1	54HC4040	Asynchronous Negative Edge-triggered 12-Bit Binary Counters	ESCC 9204/069	FP LCC	STMicroelectronics	

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	54HC4049	Hex Buffer Converter with Inverted Outputs	ESCC 9401/037	FP LCC	STMicroelectronics	
1	54HC4050	Hex Buffer Converter	ESCC 9401/038	FP LCC	STMicroelectronics	
1	54HC540	Octal Bus Buffer with Inverted 3-State Outputs	ESCC 9401/049	FP - LCC	STMicroelectronics	
1	54HC541	Octal bus buffer with 3-state output	ESCC 9401/047	FP LCC	STMicroelectronics	
1	54HC573	Octal D-type transparent latch with 3-state output	ESCC 9202/072	FP LCC	STMicroelectronics	
1	54HC574	Octal D-type edge-triggered flip-flop with 3-state output	ESCC 9203/054	FP LCC	STMicroelectronics	
1	54HC590	8-Bit Binary Counter with 3-State Output Registers	ESCC 9204/071	FP - LCC	STMicroelectronics	
1	54HC595	8-Bit Shift Registers with 3-State Output Registers	ESCC 9306/051	FP - LCC	STMicroelectronics	
1	54HC597	8-Bit PISO Shift Register	ESCC 9306/054	FP - LCC	STMicroelectronics	
1	54HC688	8-bit identify comparator	ESCC 9209/005	FP LCC	STMicroelectronics	
1	54HC74	Dual Negative Edge Triggered D-Type Flip-Flop with Clear	ESCC 9203/050	FP LCC	STMicroelectronics	
1	54HC85	4-Bit Magnitude Comparator	ESCC 9209/004	FP LCC	STMicroelectronics	
1	54HC86	Quad 2-Input Exclusive OR Gate	ESCC 9201/119	FP LCC	STMicroelectronics	
1	54HCT240	Octal Bus Buffer with Inverted 3-State Outputs	ESCC 9401/045	FP LCC	STMicroelectronics	
1	54HCT244	Octal Bus Buffer with 3-State Outputs	ESCC 9402/009	FP LCC	STMicroelectronics	

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	54HCT245	Octal Bus Transceiver with 3-State Outputs	ESCC 9405/014	FP LCC	STMicroelectronics	
1	54HCT373	Octal D-Type Transparent Latch with 3-State Outputs	ESCC 9203/064	FP LCC	STMicroelectronics	
1	54HCT374	Octal D-Type Edge-triggered Flip-Flop with 3-State Outputs	ESCC 9203/066	FP LCC	STMicroelectronics	
1	54HCT74	Dual D-Type Flip-Flop with Preset and Clear	ESCC 9203/070	FP LCC	STMicroelectronics	
1	54VCXH162244	Low Voltage CMOS 16-bit Bus Buffer with Bus hold, series Output Resistors and three-state Outputs Operating temperature range: -55 / +125 °C	SMD/5962-05210	FP-48	STMicroelectronics	
1	54VCXH162245	Low Voltage CMOS 16-bit Bus Transceiver with Bus hold and three-state Outputs Operating temperature range: -55 / +125 °C	SMD/5962-02508	FP-48	STMicroelectronics	
1	54VCXH162245	16 bit Bus Transceiver, Low Voltage, three-state outputs	SMD/5962-02508	FP-48	STMicroelectronics	
1	54VCXH162373	Low Voltage CMOS 16-bit D-type Latch with Bus hold, series Output Resistors and three-state Outputs Operating temperature range: -55 / +125 °C	SMD/5962-05211	FP-48	STMicroelectronics	
1	54VCXH162374	Low Voltage CMOS 16-bit D-type Flip-Flop with Bus hold, series Output Resistors and three-state Outputs	SMD/5962-05212	FP-48		

08 MICROCIRCUITS | 90 OTHER FUNCTIONS

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	PE9601-11	2.2 GHz Integer-N Phase Locked Loop Featuring 10/11 Dual-Modulus Prescaler, Programmable Counters and Phase Comparator Current consumption : 25mA @ 3 V Operating temperature range : -55 / +125 °C Storage temperature range : -65 / +150 °C	TPR-08-247	LCC	PEREGRINE SEMICONDUCTOR	NEW DESIGN, RAD- HARD PLL

08 MICROCIRCUITS | 95 MICROWAVE MONOLITIC INTEGRATED CIRCUITS (MMIC)

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	DO2AH	MMIC GaAs Foundry Process, PHEMT 0.25 um for Low-Noise, Wide-Band Amplifiers, Mixers and Down-Converters applications	NO DETAIL SPEC. AVAILABLE	DIE	OMMIC	
1	HB20P	HBT GaInP/GaAs Foundry Process, 0.7 um Gate Applications in Power Amplifiers up to Ku Band	ESCC 9010	N/A	UMS	
1	HP07	MMIC, GaAs Foundry Process, MESFET 0.7 um for power applications up to Ku Band	ESCC 9010	N/A	UMS	DO NOT USE BEYOND $U_{gdmax}/2$ DUE TO SENSITIVITY TO HEAVY IONS
2	PH15	MMIC GaAs Foundry Process, 0.15 um Pseudomorphic High Electron Mobility Transistor (PHEMT) for low noise, low level applications up to 1000 GHz	NONE	N/A	UMS	Passive elements are similar to PH25 Process
1	PH25	MMIC GaAs Foundry Process, 0.25 um Pseudomorphic High Electron Mobility Transistor (PHEMT) for low noise, low level applications up to 1000 GHz	ESCC 9010	N/A	UMS	

08 MICROCIRCUITS | 99 MISCELLANEOUS

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	SMFR-29C516E	16 bit flow through EDAC	SMD/5962-01A18	QUAD FLAT- PACK 100 pins	ATMEL	
1	T7906E	SMCS Lite (belonging to standard ASIC library MG1RT) ASIC Matrix : MG1090E Operating temperature range : -55 / +125 °C	SMD-5962-02A02	FP 256	ATMEL	
1	TSS901E	Scalable multi channel subsystem	SMD/5962-01A17	QUAD FLAT- PACK 256 pins	ATMEL	

09 RELAYS | 01 NON LATCHING

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	317	Contact Rating: 15A at 28 Vdc Contact Configuration: 2PDT Coil Voltage: 6, 12 and 28Vdc Mounting Variants 01 to 06 Size (max mm.): 26 x 26 x 14. Operating Temperature Range (°C): -65 to +125	ESCC 3601/007	1/2 CAN	STPI	
1	E	Contact Rating: 1A at 28 Vdc Contact Configuration: 2PDT Coil Voltage: 6, 12 and 26.5Vdc Mounting Variants 01 and 11 Size (max mm.): 13.00 x 10.40 x 6.10. Operating Temperature Range (°C): -65 to +125	ESCC 3601/012	1/6 Crystal CAN	LEACH INTERNATIONAL Europe	
2	E215	Contact Rating: 15 A at 28 Vdc Contact Configuration: 2PDT Coil Voltage: 6, 12 and 28 Vdc Mounting Variants 03,04 and 06 Size (max mm.): 13.00 x 25.70 x 25.80. Operating Temperature Range (°C): -65 to +125	ESCC 3601/007	Half- cubic inch can	COMPANY DEUTSCH DIVISION RELAYS FRANCE	
1	GP5	Contact Rating: 2A at 28 Vdc Contact Configuration: 2PDT Coil Voltage: 6, 12 and 26.5 Vdc Mounting Variants 02, 03 and 06 Size (max mm.): 20.57 x 10.41 x 10.41. Operating Temperature Range (°C): -65 to +125	ESCC 3601/003	Half crystal can	LEACH INTERNATIONAL Europe	
2	T	Contact Rating: 1A at 28 Vdc Contact Configuration: 2PDT Coil Voltage: 6.0, 12 V Size (max mm.):DIA 9.40 x 7.00 Operating Temperature Range (°C.): -65 to +125	ESCC 3601/002	TO-5	COMPANY DEUTSCH DIVISION RELAYS FRANCE	

09 RELAYS | 02 LATCHING

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	317B	Contact Rating: 15A at 28 Vdc Contact Configuration: 2PDT Coil Voltage: 6, 12 and 28Vdc Mounting Variants 03, 04, 06, 14 and 16 Size (max mm.): 26 x 26 x 13.34 Operating Temperature Range (°C): -65 to +125	ESCC 3602/007	1/2 CAN	STPI	
2	327B	Contact Rating: 15A at 28 Vdc Contact Configuration: 4PDT Coil Voltage: 6, 12 and 28Vdc Mounting Variants 04, 06, 09, 14, 16 and 19 Size (max mm.): 26 x 26 x 26 Operating Temperature Range (°C): -65 to +125	ESCC 3602/004	CAN	STPI	
1	D	Contact Rating: 1A at 28 Vdc Contact Configuration: 2PDT Coil Voltage: 6, 12 and 26.5 Vdc Mounting Variants 01 and 11 Size (max mm.): 13.00 x 10.40 x 6.10. Operating Temperature Range (°C): -65 to +125	ESCC 3602/019	1/6 Crystal CAN	LEACH INTERNATIONAL Europe	
1	GP2	Contact Rating: 2A at 28 Vdc Contact Configuration: 2PDT Coil Voltage: 6, 12 and 26.5 Vdc Mounting Variants 02, 03 and 06 Size (max mm.): 20.57 x 10.41 x 11.00. Operating Temperature Range (°C): -65 to +125	ESCC 3602/003	Half crystal can	LEACH INTERNATIONAL Europe	
1	GP250	Contact Rating: 2A at 50 Vdc (4A pp. at 56 Vrms, 20 kHz) Contact Configuration: 2PDT Coil Voltage: 12 and 26.5 Vdc Mounting Variants 02, 03 and 06 Size (max mm.): 20.57 x 10.41 x 11.00. Operating Temperature Range (°C): -65 to +125	ESCC 3602/010	Half crystal can	LEACH INTERNATIONAL Europe	
2	PHL50	Contact Rating: 50A at 50 Vdc Contact Configuration: 1PDT Coil Voltage : 48, 28, 12 Vdc Size (max mm): 47.8 x 34.6 x 26.2 Operating Temperature Range (°C): -65 to +125	ESCC 3602/014	AS PER SPEC.	COMPANY DEUTSCH DIVISION RELAYS FRANCE	

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	TL	Contact Rating: 1A at 28 Vdc Coil Voltage: 6.0, 12 V Size (max mm): DIA 9.40 x 7.00 Operating Temperature Range (°C.): -65 to +125	ESCC 3602/002	TO-5	COMPANY DEUTSCH DIVISION RELAYS FRANCE	

10 RESISTORS | 08 METAL FILM

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	MG680	High Voltage Range (Ohm): 600 - 20M Tol. (±%) : 0.5 TC (10E-6/±C): 140 Power Rating (W): 0.800 Max. Voltage (V): 2000 Size (max mm): DIA 1.80 x 4.30 Operating temperature range (°C): -55 to +125	GSFC S-311-P-683	Axial	CADDOCK ELECTRONICS	
2	MG710	High Voltage Range (Ohm): 800 - 50M Tol. (±%) : 0.5 TC (10E-6/°C): 140 Power Rating (W): 1 Max. Voltage (V): 4000 Size (max mm): DIA 1.80 x 4.30 Operating temperature range (°C): -55 to +125	GSFC S-311-P-683	Axial	CADDOCK ELECTRONICS	
2	MG716	High Voltage Range (Ohm): 600 - 75M Tol. (±%) : 0.5 TC (10E-6/°C): 140 Power Rating (W): 1.5 Max. Voltage (V): 4000 Size (max mm): DIA 1.80 x 4.30 Operating temperature range (°C): -55 to +125	GSFC S-311-P-683	Axial	CADDOCK ELECTRONICS	
2	MG721	High Voltage Range (Ohm): 200 - 100M Tol. (±%) : 0.5 TC (10E-6/°C): 140 Power Rating (W): 2 Max. Voltage (V): 4000 Size (max mm): DIA 1.80 x 4.30 Operating temperature range (°C): -55 to +125	GSFC S-311-P-683	Axial	CADDOCK ELECTRONICS	
1	RNC90	Film Non-Hermetically Sealed Range (Ohm): 50 - 100K Tol. (±%) : 0.02, 1 TC (10E-6/°C): 5 Power Rating (W): 0.5 Max. Voltage (V): 300 Size (max mm): 7.5 x 8 x 2.5 Operating temperature range (°C): -55 to +175	ESCC 4001/011	AXIAL	VISHAY S.A. div. SFERNICE	

10 RESISTORS / 09 CHIP (ALL)

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	P HR	Thin Film, 1206/0805/2010/0603 Series, High Precision and Stability Case Size Resistance Range (ohm) Tolerance Power Rating (mW) Dimensions (max. mm) 0603(Var. 01-05) 250 to 200 k 0.01, 0.02 % 100 2.16 x 1.01 x 1.02 0805(Var. 02-06) 250 to 250 k 0.01, 0.02 % 125 2.55 x 1.53 x 1.02 1206(Var. 03-07) 250 to 1 M 0.01, 0.02 % 250 3.64 x 1.86 x 1.02 TC (10E-6/°C) : 10 Operating Temperature Range -55 to +125 °C	ESCC 4001/023	CHIP	VISHAY S.A. div. SFERNICE	
1	PRA HR	Surface mounting, high precision thin film array Range (Ohm): 100 - 1.0M (E48 series with 1 out of 4) Tol. (± %): 0.1, 1 Power Rating (mW): 100/resistor Voltage Rating (V): see table 1(b) of detail specification Temp. Coeff. (±10E-6/°C) : 10 (see note 4 of Table 1(a) of detail specification) Terminations : Nickel, hot-solder dip finish Size (max mm) : 3.20 x 1.45 x 0.58 Operating Temperature Range (°C) : -55 to +155	ESCC 4001/025	SMD	VISHAY S.A. div. SFERNICE	
1	RM2010	Film Range (Ohm): 5.6 - 15M Tol. (± %): 1, 2 Power Rating (mW): 800 Voltage Rating (V): 150 Temp. Coeff. (±10E-6/°C) : 100(K), 300(M) Size (max mm) : 5.60 x 2.65 x 0.85 Operating temperature range (°C) : -55 to +70 (+150 at 0 watt)	MIL-PRF-55342/8	CHIP	STATE OF THE ART	

10 RESISTORS | 10 NETWORK (ALL)

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	SIL	Resistor Networks Thick Film Resistance Range (Ohm): 47 - 1M Tol. ($\pm \%$): 2 Temp. Coeff. ($\pm 10E-6/^{\circ}C$): 150 Variants 01 to 06 of 4005/003 Power rating (mW): 180 for individual resistors 100 for paralleled resistors Size (max mm): 6 pins 15.20 x 5.08 x 2.50 Spacing 2.54 mm 8 pins 20.30 x 5.08 x 2.50 Spacing 2.54 mm 10 pins 25.40 x 5.08 x 2.50 Spacing 2.54 mm Operating Temperature Range ($^{\circ}C$) : -55 to +125	ESCC 4005/003	SIL	VISHAY S.A. div. SFERNICE	

10 RESISTORS | 11 HEATERS, FLEXIBLE

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	Heater	Resistor, Heater, Flexible, Single and double layer. Maximum ohmic density: 200 ohm/cm2 Tolerances: ±2, 5 % Resistance range: 1 to 5000 ohm Heating area: 1.6 to 1300 cm2 Maximum heating side dimension: 60 cm Terminal lead: 20, 22, 24, 26, 28, 30 AWG Temperature range (10-6°C.): 175 Operating Temperature Range (°C.): -65 to +200.	ESCC 4009/002	AS PER SPEC.	IRCA-DIVISION RICA	
2	HEATERS FLEXIBLE	Single sided flexible heated, polyimide coated Operating temperature range: -200 to +200 °C	MINCO P.Q.02 Rev. 01 18/09/01	N/A	MINCO - SA	

11 THERMISTORS | 02 TEMPERATURE MEASURING

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	4006013***	NTC, range 1000 to 5000 ohms @ +25 °C temperature range -55 / +115 °C nominal values and tolerances at +25 °C : Var. 01 : 1000 ohm 0.88 % Var. 02 : 2000 ohm 0.88 % Var. 03 : 3000 ohm 0.88 % Var. 04 : 4000 ohm 0.88 % Var. 05 : 5000 ohm 0.88 %	ESCC 4006/013	AS PER SPEC.	BETATHERM IRELAND LIMITED	
1	4006014***	NTC, range 2000 to 100000 ohms @ +25 °C temperature range -40 / +160 °C nominal values and tolerances at +25 °C : Var. 01 : 2000 ohm 1.35 % Var. 02 : 4000 ohm 1.35 % Var. 03 : 4000 ohm 1.35 % Var. 04 : 15000 ohm 1.41 % Var. 05 : 100000 ohm 1.63 %	ESCC 4006/014	AS PER SPEC.	BETATHERM IRELAND LIMITED	
2	44900 Series	Leaded, Epoxy Encapsulated, Negative Temperature Coefficient Pd (mW): 1 Tolerance (± %): 0.4 to 10 Range (Ohm @ 25°C): 2.2k, 3k, 5k, 10k, 30k Package (max mm): S Variant DIA 2.40, T Variant DIA 2.80 Various Wires Definitions (Type & AWG) Operating Temperature Range (°C): -55 to +90	GSFC S-311-P-18	AS PER SPEC.	YSI TEMPERATURE	

12 TRANSISTORS / 01 LOW POWER, NPN (< 2WATTS)

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	2N2219A	hFE min/max: 100/300 @ IC = 150 mA PD (mW): 800 BV CBO (V): 75 BV CEO (V): 40 IC (mA): 800 Operating Temperature Range (°C.): -65 to +200	ESCC 5201/003	TO39	STMicroelectroni cs	
1	2N2222A	hFE min/max: 100/300 @ IC = 150 mA PD (mW): 500 BV CBO (V): 75 BV CEO (V): 40 IC (mA): 800 @10 us pulse Operating Temperature Range (°C.): -65 to +200	ESCC 5201/002	LCCC3	STMicroelectroni cs	
1	2N2369A	hFE min/max: 40/120 @ IC = 10 mA PD (mW): 360 BV CBO (V): 40 BV CEO (V): 15 IC (mA): 500 @10 us pulse Operating Temperature Range (°C.): -65 to +200	ESCC 5201/006	LCCC3	STMicroelectroni cs	
1	2N2484	hFE min/max: 250/650 @ IC = 1 mA PD (mW): 360 BV CBO (V): 60 BV CEO (V): 60 IC (mA): 50 Operating Temperature Range (°C.): -65 to +200	ESCC 5201/001	LCCC3	STMicroelectroni cs	
1	2N3019	hFE min/max: 100/300 @ IC = 150 mA PD (mW): 800 BV CBO (V): 140 BV CEO (V): 80 IC (A): 1 Operating Temperature Range (°C.): -55 to +175	ESCC 5201/011	TO39	STMicroelectroni cs	
1	2N3501L	hFE min/max: 100/300 @ IC = 150 mA PD (W): 1 BV CBO (V): 150 BV CEO (V): 150 IC (A): 0.3 Operating Temperature Range (°C.): -65 to +200	MIL-S-19500/366	TO205	MICROSEMI LAWRENCE	
1	2N3700	hFE min/max: 100/300 @ IC = 150 mA PD (mW): 500 BV CBO (V): 140 BV CEO (V): 80 IC (A): 1 Operating Temperature Range (°C.): -65 to +200	ESCC 5201/004	LCCC3	STMicroelectroni cs	
1	2N5551	hFE min/max: 80/250 @ IC = 10 mA PD (mW): 360 BV CBO (V): 180 BV CEO (V): 160 IC (mA): 500 Operating Temperature Range (C.): -65 to +200	ESCC 5201/019	LCCC3	STMicroelectroni cs	
1	2N5666, 2N5667	hFE min/max: 40/120 @ IC = 1 A (2N5666) PD (W): 1.2 hFE min/max: 25/75 @ IC = 1 A (2N5667) PD (W): 1.2 BV CBO (V): 250 BV CEO (V): 200 IC (A): 5 (2N5666) BV CBO (V): 400 BV CEO (V): 300 IC (A): 5 (2N5667) Operating Temperature Range (°C.): -65 to +200	MIL-S-19500/455	TO205	MICROSEMI LAWRENCE	

12 TRANSISTORS / 02 LOW POWER, PNP (< 2WATTS)

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	2N2605	hFE min/max: 100/300 @ IC = -10 mA PD (mW): 400 BV CBO (V): -70 BV CEO (V): -60 IC (mA): -30 Operating Temperature Range (°C.): -65 to +200	MIL-S-19500/354	TO-206	MICROSEMI LAWRENCE	
1	2N2905A	hFE min/max: 100/300 @ IC = -150 mA PD (mW): 600 BV CBO (V): -60 BV CEO (V): -60 IC (mA): -600 Operating Temperature Range (°C.): -65 to +200	ESCC 5202/002	TO39	STMicroelectroni cs	
1	2N2907A	hFE min/max: 100/300 @ IC = -150 mA PD (mW): 400 BV CBO (V): -60 BV CEO (V): -60 IC (mA): -600 (-500 for LCC3) Operating Temperature Range (°C.): -65 to +200	ESCC 5202/001	LCCC3	STMicroelectroni cs	
1	2N3350	hFE min/max: 100/300 @ IC = 10 uA PD (mW): 600 BV CBO (V): -60 BV CEO (V): -45 IC (mA): 30 Operating Temperature Range (C.): -65 to +200	ESCC 5207/003	LCCC6	STMicroelectroni cs	
1	2N3637	hFE min/max: 100/300 @ IC = -50 mA pulsed PD (W): 1 BV CBO (V): -175 BV CEO (V): -175 IC (A): -1 Operating Temperature Range (°C.): -65 to +200	MIL-S-19500/357	TO-205	MICROSEMI LAWRENCE	
2	2N3764	hFE min/max: 40/140 @ IC = -0.5 mA PD (W): 1 BV CBO (V): -60 BV CEO (V): -60 IC (A): -1.5 Operating Temperature Range (°C.): -65 to +200	MIL-S-19500/396	TO-205	MICROSEMI LAWRENCE	
1	2N3867S, 2N3868S	hFE min/max: 40/120 @ IC = -1.5 A (2N3867S) PD (W): 1 hFE min/max: 30/150 @ IC = -1.5 A (2N3868S) PD (W): 1 BV CBO (V): -40 BV CEO (V): -40 IC (A): -3 (2N3867S) BV CBO (V): -60 BV CEO (v): -60 IC (A): -3 (2N3868S) Operating Temperature Range (°C.): -65 to +200	MIL-S-19500/350	TO205	MICROSEMI LAWRENCE	
1	2N4033	hFE min/max: 100/300 @ IC = -100 mA PD (mW): 500 BV CBO (V): -80 BV CEO (V): -80 IC (A): 1 Operating Temperature Range (C.): -65 to +200	ESCC 5202/008	LCCC3	STMicroelectroni cs	
1	2N5401	hFE min/max: 60/240 @ IC = -10 mA PD (mW): 360 BV CBO (V): -160 BV CEO (V): -150 IC (mA): -500 Operating Temperature Range (C.): -65 to +200	ESCC 5202/014	LCCC3	STMicroelectroni cs	
1	2N5415	hfe = 30/120 @ Ic=50mA Pdmax. = 0,75 W @Tamb. = +25°C. BV CBO = 200 V BV CEO = 200 V Ic = 1 A Operating Temperature Range (°C.): -65 to +200	MIL-S-19500/485	TO39	MICROSEMI LAWRENCE	

12 TRANSISTORS | 03 HIGH POWER, NPN (> 2WATTS)

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	2N5038	hFE min/max: 50/200 @ IC = 2 A PD (W): 140 @ Tcase = +25°C. BV CBO (V): 150 BV CEO (V): 90 IC (A): 20 Operating Temperature Range (°C.): -65 to +200	MIL-S-19500/439	TO204	MICROSEMI LAWRENCE	
1	2N5154	hFE min/max: 70/200 @ IC = 2.5 mA PD (W): 8.75 BV CBO (V): 100 BV CEO (V): 80 IC (A): 5 Operating Temperature Range (°C.): -65 to +200	ESCC 5203/010	TO39- TO257	STMicroelectroni cs	
1	BUX77	hFE min/max: 50/200 @ IC = 2 A PD (W): 40 (Var. 01-05), 35 (Var.06-07) BV CBO (V): 100 BV CEO (V): 80 IC (A): 5 Operating Temperature Range (°C.): -65 to +200	ESCC 5203/016	TO257	STMicroelectroni cs	

12 TRANSISTORS | 04 HIGH POWER, PNP (> 2WATTS)

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	2N5153	hFE min/max: 70/200 @ IC = -2.5 mA PD (W): 10 BV CBO (V): -100 BV CEO (V): -80 IC (A): -2 Operating Temperature Range (°C.): -65 to +200	ESCC 5204/002	TO39- TO257	STMicroelectroni cs	
1	BUX78	hFE min/max: 50/200 @ IC = -2 A PD (W): 40 (Var. 01-05), 35 (Var.06-07) BV CBO (V): -100 BV CEO (V): -80 IC (A): -5 Operating Temperature Range (°C.): -65 to +200	ESCC 5204/006	TO257	STMicroelectroni cs	

12 TRANSISTORS | 06 FET P CHANNEL

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	2N7389	VGS = ± 20V, Breakdown Voltage DS min. = -100 V, ID = -6.5 A max. thermal resistance = 5 °C/W, max. rds = 0.3 ohms @ Vgs = 12 V Operating Temperature Range (°C.): -55 to +150	MIL-PRF- 19500/630	TO- 205AF LCC	INTERNATIONAL RECTIFIER	

12 TRANSISTORS | 08 MULTIPLE

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	2N2920A (NPN)	hFE min/max: 150/600 @ IC = 10 uA PD (mW): 500 (both section) BV CBO (V): 60 BV CEO (V): 60 IC (mA): 30 Operating Temperature Range (°C.): -65 to +200	ESCC 5207/002	LCC6	STMicroelectroni cs	
1	2N3810 (PNP)	hFE min/max: 150/450 @ IC = -1 mA PD (mW): 600 (both section) BV CBO (V): -60 BV CEO (V): -60 IC (mA): 50 Operating Temperature Range (°C.): -65 to +200	ESCC 5207/005	LCC6	STMicroelectroni cs	

12 TRANSISTORS | 10 RF/MICROWAVE NPN LOW POWER / LOW NOISE

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	BFY180	BV CBO (V): 15 BV CEO (V): 8 Ic (mA): 4.0 hFE min/max: 30/175 @ IC max = 0.25 mA Pout (mW): 30 Nf max: 3.2 dB @ 2 GHz MAG/MSG min: 12 dB @ 2 GHz fT min: 7.0 GHz Variant 01 of ESCC spec. Operating Temperature Range (°C.): -65 to +200	ESCC 5611/006	MICRO X	INFINEON TECHNOLOGIES A.G.	
1	BFY181	BV CBO (V): 20 BV CEO (V): 12 Ic (mA): 20 hFE min/max: 55/175 @ IC max = 5.0 mA Pout (mW): 175 Nf max: 2,9 dB @ 2 GHz MAG/MSG min: 13.5 dB @ 2 GHz fT min: 7.0 GHz Variant 03 of ESCC spec. Operating Temperature Range (°C.): -65 to +200	ESCC 5611/006	MICRO X	INFINEON TECHNOLOGIES A.G.	
1	BFY183	BV CBO (V): 20 BV CEO (V): 12 Ic (mA): 65 hFE min/max: 55/160 @ IC max = 5.0 mA Pout (mW): 450 Nf max: 2,9 dB @ 2 GHz MAG/MSG min: 12.5 dB @ 2 GHz fT min: 7.0 GHz Variant 05 of ESCC spec. Operating Temperature Range (°C.): -65 to +200	ESCC 5611/006	MICRO X	INFINEON TECHNOLOGIES A.G.	
1	BFY193	BV CBO (V): 20 BV CEO (V): 12 Ic (mA): 80 hFE min/max: 50/175 @ IC max = 30 mA Pout (mW): 580 Nf max: 2,9 dB @ 2 GHz MAG/MSG min: 12.5 dB @ 2 GHz fT min: 7.0 GHz Variant 06 of ESCC spec. Operating Temperature Range (°C.): -65 to +200	ESCC 5611/006	MICRO X	INFINEON TECHNOLOGIES A.G.	
1	BFY280	BV CBO (V): 8 BV CEO (V): 15 Ic (mA): 10 hFE min/max: 30/175 @ IC max = 0.25 mA Pout (mW): 80 Nf max: 2.9 dB @ 2 GHz MAG/MSG min: 13 dB @ 2 GHz fT min: 7.0 GHz Variant 02 of ESCC spec. Operating Temperature Range (°C.): -65 to +200	ESCC 5611/006	MICRO X	INFINEON TECHNOLOGIES A.G.	

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	BFY405	BV CBO (V): 15 BV CEO (V): 4.5 Ic (mA): 12 hFE min/max: 50/150 @ IC max = 2.0 mA Pout (mW): 55 Nf max: 1.8 dB @ 1.8 GHz Ic (mA): 2.0 fT min: 20 GHz Variant 01 of ESCC spec. Operating Temperature Range (°C.): -65 to +175	ESCC 5611/008	MICRO X	INFINEON TECHNOLOGIES A.G.	
1	BFY420	BV CBO (V): 15 BV CEO (V): 4.5 Ic (mA): 35 hFE min/max: 50/150 @ IC max = 20 mA Pout (mW): 160 Nf max: 1.7 dB @ 1.8 GHz Ic (mA): 5.0 fT min: 20 GHz Variant 02 of ESCC spec. Operating Temperature Range (°C.): -65 to +175	ESCC 5611/008	MICRO X	INFINEON TECHNOLOGIES A.G.	
1	BFY450	BV CBO (V): 15 BV CEO (V): 4.5 Ic (mA): 100 hFE min/max: 50/150 @ IC max = 20 mA Pout (mW): 450 Nf max: 2.0 dB @ 1.8 GHz Ic (mA): 10 fT min: 18 GHz Variant 03 of ESCC spec. Operating Temperature Range (°C.): -65 to +175	ESCC 5611/008	MICRO X	INFINEON TECHNOLOGIES A.G.	

12 TRANSISTORS / 15 MICROWAVE POWER (GaAs)

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	CLY32	VDS max. 14 V VDG max. 16 V VGS max. -6.0 V Id max. 1.2 A Pout > 32 dBm, n% > 45 % @ Vds = 9.0 V, f = 2.0 GHz Ptot (W): 7.5 Operating Temperature Range (°C.): -65 to +175	ESCC 5614/006	MWP25	INFINEON TECHNOLOGIES A.G.	

12 TRANSISTORS / 16 MICROWAVE LOW NOISE (GaAs)

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	CFY 67 CFY 67_08	Pseudomorphic HEMT Vds (V): 3.5 Vdg (V): 4.5 Id (mA): 60 NF <= 0.8 dB Ga >= 11 dB @ 12 GHz (Variant 01 and 03) NF <= 1.0 dB Ga >= 10.5 dB @ 12 GHz (Variant 02 and 04) Ptot (mW): 200 Operating Temperature Range (°C.): -65 to +150	ESCC 5613/004	MICRO X	INFINEON TECHNOLOGIES A.G.	Rrecommended for applications in X and Ku bands

12 TRANSISTORS | 17 CHOPPER

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	2N2432A	hFE min/max: 80/400 @ IC = 1 mA PD (mW): 300 BV CBO (V): 45 BV CEO (V): 45 IC (mA): 100	MIL-S-19500/313	TO-206	MICROSEMI LAWRENCE	

13 WIRES AND CABLES | 01 LOW FREQUENCY

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	3901001**B (AXON) 1871 (NEXANS)	Low Frequency, Polyimide Insulation Voltage Rating, maximum (Vrms): 600 Insulation Type: Polyimide/Kapton, Light weight Wire size AWG 26 to 12, shielded and jacketed wires only, up to 3 cores Operating Temperature Range (°C): -100 to +200C	ESCC 3901/001	N/A	DRAKA - FILECA NEXANS	
1	3901002**B (AXON) 1872 (NEXANS)	Low Frequency, Polyimide Insulation Voltage Rating, maximum (Vrms): 600 Insulation Type: Polyimide/Kapton, medium weight Wire size AWG 28 to 18, single finished wires unjacketed and unshielded Operating Temperature Range (°C): -100 to +200C	ESCC 3901/002	N/A	AXON' CABLE DRAKA - FILECA NEXANS	
1	MTV-BTV	Low Frequency, PTFE/Polyimide Insulation Voltage Rating, maximum (Vrms): 600 Insulation Type: Extruded PTFE for flexibility Wire size AWG 30 to 18, shielded and unshielded, up to 5 cores Operating Temperature Range (°C): -100 to +200C	ESCC 3901/013	N/A	NEXANS	
1	Series 55	Low Frequency, 600V, Silver-plated Copper, Extruded Crosslinked Fluoropolymer Insulation. Voltage Rating (max Vrms): 600 Wire size ISO 001, 002, 004, 006, 010, 012, 020, 030, shielded and unshielded , up to 4 cores Operating Temperature Range (°C): -100 to +200C	ESCC 3901/012	N/A	TYCO ELECTRONICS DORCAN	AWG28 products are not ESCC qualified
1	SPL	Low Frequency, Polyimide Insulation. Voltage Rating, maximum (Vrms): 600 Insulation Type: Polyimide/Expanded PTFE Wire size AWG 28 to 12, shielded and unshielded, up to 7 cores Operating Temperature Range (°C): -200 to +200C	ESCC 3901/019	N/A	W.L.GORE	
1	SPM	Low Frequency, Polyimide/Fluorthermoplast. Voltage Rating, maximum (Vrms): 600 Wire size AWG 30 to 12, shielded and unshielded, up to 7 cores Operating Temperature Range (°C): -200 to +200C	ESCC 3901/018	N/A	W.L.GORE	

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	SPP	Power Wires for Crimping, Low Frequency Voltage Rating, maximum (Vrms): 600 Insulation Type: Expanded PTFE Tape Wire size AWG 4 and 8 Operating Temperature Range (°C): -200 to +200C	ESCC 3901/017	N/A	W.L.GORE	

13 WIRES AND CABLES | 02 COAXIAL

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	50CIS	Coaxial, double shield coaxial, shielded and jacketed coaxial. Miniature, 50 Ohms, PTFE Dielectric, Polyimide Jacket Maximum Voltage: 900 Vrms Operating Temperature Range (°C): -100 to + 200	ESCC 3902/001	N/A	NEXANS	

16 SWITCHES | 04 MICROSWITCH

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	T3	Microswitches, Sensitive, 1PDT Contact Rating: 4A, 28 Vdc, Contact Configuration SPDT Operating Temperature Range (°C): -55 to + 125	ESCC 3701/003	AS PER SPEC.	ABB ENTRELEC	

20 THERMOSTAT / 01 ALL

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	47	Contact Configuration SPST, Contact Rating: 4A, 30 Vdc Difference between contact opening temp. and closing temp. ($^{\circ}$ C max): For switching temp $< -35^{\circ}$ C 10 For $-35 < \text{switching temp} < +79^{\circ}$ C 5 or 10 For switching temp $> +80^{\circ}$ C 15 Variant 02 Dimensions (max., mm.) : 16.2 DIA, 11.5 height Minimum temperature gradient: 0.11 deg.C/minute Operating Temperature Range ($^{\circ}$ C): -50 to + 150	ESCC 3702/001	AS PER SPEC.	COMEPA	

30 RF PASSIVE COMPONENTS | 01 COAXIAL COUPLERS

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	RF Coaxial Couplers	RF Couplers, Unsealed, SMA Connectors Frequency Range (GHz): 1 - 22 Coupling factor (dB): 4 - 30 RF Power (W): 50 Operating Temperature Range (°C):as per spec.	ESCC 3404/005	AS PER SPEC.	RADIALL	

30 RF PASSIVE COMPONENTS | 09 COAXIAL POWER DIVIDERS

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	RF Power Divider	RF Power Divider, unsealed, 4-port quadrature, SMA connectors Frequency Range (GHz): 1 - 18 Coupling Factor (dB): 3 RF Power P (W): 1 - 60 RF Leakage (dB): 65 - 85 Size (max mm): 37.5 x 13.5 x 7.7 Operating Temperature Range (°C): -40 to +85	ESCC 3404/004	AS PER SPEC.	RADIALL	

30 RF PASSIVE COMPONENTS | 10 COAXIAL ATTENUATORS/LOADS

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	Coaxial Attenuators	R.F. Attenuators, Fixed, Coaxial. Frequency Range (GHz): 0 - 22 Attenuation value range (dB): 0 - 20 Operating Temperature Range (°C): -55 + 125	ESCC 3403/005	AS PER SPEC.	RADIALL	
1	RF Coaxial Loads	Passive Devices, RF, Coaxial, Loads Frequency Range (GHz): 0 - 22 Rated P (in) (W): 1 Impedance (Ohm): 50 VSWR (Max.): Type 0<f(GHz)<= 4; 4<f(GHz)< = 12.4; 12.4<f(GHz)< = 18; 18<f(GHz)<= 22 1 1.05 1.10 1.15 1.20 2 1.05 1.15 1.20 1.25 Operating Temperature Range (°C): -55 to + 125	ESCC 3403/006	AS PER SPEC.	RADIALL	

40 HYBRIDS | 01 THICK FILM

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	A0000055 (H757)	MIL-STD-1553B Dual Transceiver (Integrated MIL-STD-1553B Dual Complete Transmitter + MIL-STD-1553B Dual Complete Receiver) Operational Rated Temperature -30 to +85 °C	DPN-A5-ST-0426	Metall c FP-46	Astrium Velizy	
2	A0005367	MIL-STD-1553B Remote Terminal Coupler (Integrated MIL-STD-1553B Single Transceiver + MIL-STD-1553B Remote Terminal ASIC) Operational Rated Temperature -30 to +85 °C	A5-PS-CA5-491- MMV + DPN-A5-ST- 0376_ASP20-RT-Ed 01	Metalli c FP-64	Astrium Velizy	
2	MCM 21020 DSP BR334 (A0008778)	Multi-chip Module Digital Signal Processor 21020 (TSC21020E floating-point DPS + DPC co-prcessor + 128 kwords on-module SRAM + cascadable timers, full duplex UARTs, 1355 serial links, watchdog timers and PWM channels). Operational Rated Temperature -30 to +85 °C	MCM-DSP-SPEC- DA0018744-V-ASTR	CQFP- 334	Astrium Velizy	Replaces the old version MCM2102- A0005305 (obsolete)
2	MCM ERC32	Software processing module (20 Mips at 25 MHz) based on a CPU core embedding the ERC32SC, VASI ASIC chip and memories Operational Rated Temperature -30 to +85 °C	ERC32.MCM.SP.12. V.MMS iss02 rev00 14/10/02	Dual- cavity co- fired	Astrium Velizy	