

EPPL | *European Preferred Parts List*

Issue: 15

Issue Date: 2010-04-22

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 1500 1, 2, 5, 10 50, 100 30 4.7 to 9.1 0.5 pF 50, 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) (%) 820 to 10000 5, 10, 20 100 -30,+20 3900 to 27000 5, 10, 20 50 -30,+20 10000 to 47000 5, 10, 20 25 -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) 10 to 3900 1, 2, 5, 10 50,100 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) (%) 3900 to 47000 5, 10, 20 100 ±20(Vt=0V),-30/+20(Vt=Ur) 33000 to 120000 5, 10, 20 50 ±20(Vt=0V),-30/+20(Vt=Ur) 47000 to 220000 5, 10, 20 25 ±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) 100 to 15000 1, 2, 5, 10 50, 100 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	

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																					

04 DIODES | 02 RECTIFIER

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	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-PRF- 19500/411	A248	MICROSEMI SCOTTSDALE	GIDEP Problem Advisory N. WV9- P-06-01 for LDC 0415 to 00614 - check LDC for flight application
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-PRF- 19500/420	A1	MICROSEMI SCOTTSDALE	GIDEP Problem Advisory N. WV9- P-06-01 for LDC 0415 to 00614 - check LDC for flight application
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-PRF- 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-PRF- 19500/429	A248	MICROSEMI SCOTTSDALE	GIDEP Problem Advisory N. WV9- P-06-01 for LDC 0415 to 00614 - check LDC for flight application
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-PRF- 19500/477	D-5A	MICROSEMI SCOTTSDALE	GIDEP Problem Advisory N. WV9- P-06-01 for LDC 0415 to 00614 - check LDC for flight application

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
2	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 ($^{\circ}$ C.): -65 to +175. * pulsed	MIL-PRF- 19500/477	D-5B	MICROSEMI SCOTTSDALE	GIDEP Problem Advisory N. WV9- P-06-01 for LDC 0415 to 00614 - check LDC for flight application

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-PRF- 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	
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-PRF- 19500/533	DO-204	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
1	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	

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-PRF-19500/500	DO-13	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-PRF-19500/516	E (MSCUA Outline)	MICROSEMI SCOTTSDALE	

08 MICROCIRCUITS | 80 LOGIC FAMILIES

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	54HC85	4-Bit Magnitude Comparator	ESCC 9209/004	FP	STMicroelectronics	
1	54HC86	Quad 2-Input Exclusive OR Gate	ESCC 9201/119	FP	STMicroelectronics	
1	54HCT240	Octal Bus Buffer with Inverted 3-State Outputs	ESCC 9401/045	FP	STMicroelectronics	
1	54HCT244	Octal Bus Buffer with 3-State Outputs	ESCC 9402/009	FP	STMicroelectronics	
1	54HCT245	Octal Bus Transceiver with 3-State Outputs	ESCC 9405/014	FP	STMicroelectronics	
1	54HCT373	Octal D-Type Transparent Latch with 3-State Outputs	ESCC 9203/064	FP	STMicroelectronics	
1	54HCT374	Octal D-Type Edge-triggered Flip-Flop with 3-State Outputs	ESCC 9203/066	FP	STMicroelectronics	
1	54HCT74	Dual D-Type Flip-Flop with Preset and Clear	ESCC 9203/070	FP	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	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	STMicroelectronics	

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. 08 : G15K4D489 15000 ohm 1.01 % Var. 09 : G10K4D453 10000 ohm 2.00 %	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	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
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	STMicroelectronics	
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	STMicroelectronics	
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	
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	2N5415	hfe = 30/120 @ Ic=50mA P _{dmax.} = 0,75 W @T _{amb.} = +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
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	SMD .5	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	SMD .5	STMicroelectroni cs	

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	

13 WIRES AND CABLES | 01 LOW FREQUENCY

Part	Part Type	Description	Det. Specification	Package	Manufacturer(s)	Remarks
1	3901001**B	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	AXON' CABLE	
1	3901002**B	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	

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	

