

6.7 INDUCTORS (07)

6.7.1 Fixed, RF

INDUCTORS, FIXED, RF, MINIATURE, MOULDED, SURFACE MOUNT, BASED ON SERIES MSC1 10k, 12k, 20k and H01				<b>241M</b>																																				
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date																																				
Generic ESCC 3201	Exxelia SAS Illange France	Qualification	ESA/ESTEC	Jun 2016																																				
Detail ESCC 3201/008		Remarks																																						
<p>Qualified range:</p> <p>Variants 01 to 05 are qualified</p> <table border="1"> <thead> <tr> <th>Series No.</th> <th>Range (µH)</th> <th>Tolerance (±%)</th> <th>Q min.</th> <th>Min. SRF f<sub>r</sub> (MHz)</th> <th>Max. DCR, R<sub>dc</sub>(Ω)</th> <th>Rated DC Current, I<sub>R</sub> (mA)</th> </tr> </thead> <tbody> <tr> <td>10k</td> <td>0.010- 10</td> <td>2.0, 5.0, 10</td> <td>60 - 42</td> <td>1000 -33</td> <td>0.025 -3.3</td> <td>750 - 87</td> </tr> <tr> <td>12k</td> <td>12- 1000</td> <td>2.0, 5.0, 10</td> <td>56 - 12</td> <td>26 - 1.5</td> <td>2.0 - 120</td> <td>110 - 15</td> </tr> <tr> <td>20k</td> <td>0.010 -1000</td> <td>10</td> <td>75 - 30</td> <td>1000 - 1.7</td> <td>0.04 - 80</td> <td>1000 - 25</td> </tr> <tr> <td>H01</td> <td>0.380 - 100</td> <td>15</td> <td>30</td> <td>8</td> <td>0.029 - 3.8</td> <td>1500 - 100</td> </tr> </tbody> </table> <p>Dielectric Withstanding Voltage (DWV): 200 Vrms</p> <p>Operating Temperature Range (°C): -55 to +125</p>						Series No.	Range (µH)	Tolerance (±%)	Q min.	Min. SRF f <sub>r</sub> (MHz)	Max. DCR, R <sub>dc</sub> (Ω)	Rated DC Current, I <sub>R</sub> (mA)	10k	0.010- 10	2.0, 5.0, 10	60 - 42	1000 -33	0.025 -3.3	750 - 87	12k	12- 1000	2.0, 5.0, 10	56 - 12	26 - 1.5	2.0 - 120	110 - 15	20k	0.010 -1000	10	75 - 30	1000 - 1.7	0.04 - 80	1000 - 25	H01	0.380 - 100	15	30	8	0.029 - 3.8	1500 - 100
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6.7.2 Power

INDUCTORS, POWER, MOULDED, SURFACE MOUNT, BASED ON SERIES SESI AND CMC				<b>276J</b>																																																						
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date																																																						
Generic ESCC <b>3201</b> Detail ESCC <b>3201/009</b> <b>3201/010</b>	<b>Exxelia SAS</b> <b>Illange</b> <b>France</b>	Qualification	ESA/ESTEC	April 2004																																																						
Remarks Termination finish shall be Sn60Pb40																																																										
<p>Qualified range:</p> <p>3201/009: Variants 01 to 08 are qualified 3201/010 Variants 01, 03 and 05 are qualified</p> <p>Component types:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">3201/009</td> <td colspan="8"></td> </tr> <tr> <td>SESI</td> <td>14SR</td> <td>15SR</td> <td>15WR</td> <td>18WR</td> <td>9.1WR</td> <td>22WR</td> <td>32WR</td> <td>32PR</td> </tr> <tr> <td>Variant</td> <td>01</td> <td>02</td> <td>03</td> <td>04</td> <td>05</td> <td>06</td> <td>07</td> <td>08</td> </tr> <tr> <td>3201/010</td> <td colspan="8"></td> </tr> <tr> <td>CMC</td> <td>15WR</td> <td>18WR</td> <td>22WR</td> <td colspan="5"></td> </tr> <tr> <td>Variant</td> <td>01</td> <td>03</td> <td>05</td> <td colspan="5"></td> </tr> </table> <p>Operating Temperature Range (°C): -55 to +125</p>					3201/009									SESI	14SR	15SR	15WR	18WR	9.1WR	22WR	32WR	32PR	Variant	01	02	03	04	05	06	07	08	3201/010									CMC	15WR	18WR	22WR						Variant	01	03	05					
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6.1 TRANSFORMERS (14)

6.1.1 CCM

Molded SMD Custom Magnetics Components, Linear (CCM) Winding Technology				<b>356B</b>			
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date			
Generic ESCC <a href="#">3201</a> Detail ESCC <a href="#">3201/011</a>	<a href="#">Exxelia SAS</a> <a href="#">Illange</a> <a href="#">France</a>	Qualification	ESA/ESTEC	Jan 2019			
Remarks							
Technology Flow qualified as defined into the current QML published document REP006 ( <a href="#">ESCC/RP/QML006</a> ).							
Variant Number	Type	Design Domain	Electrical Characteristics	Total Power Max (W)	No. of Terminals (3)	Terminal Finish (4)	Weight Max (g)
01	CCM4	Note 1 from QML	Note 2 from QML	≤ 18	12	Sn60Pb40	5.1
02	CCM5			≤ 40	16	Sn60Pb40	7.4
03	CCM6			≤ 50	16	Sn60Pb40	12.1
04	CCM20			≤ 120	16	Sn60Pb40	21.4
05	CCM25			≤ 150	20	Sn60Pb40	44.2