

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				241M		
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date		
Generic ESCC 3201 Detail ESCC 3201/008	Exxelia SAS Illange France	Qualification	ESA/ESTEC	Jun 2016		
		Remarks				
Qualified range:						
Variants 01 to 05 are qualified						
Series No.	Range (μH)	Tolerance (±%)	Q min.	Min. SRF f _r (MHz)	Max. DCR, R _{dc} (Ω)	Rated DC Current, I _R (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
Dielectric Withstanding Voltage (DWV): 200 Vrms						
Operating Temperature Range (°C): -55 to +125						

6.7.2 Power

INDUCTORS, POWER, MOULDED, SURFACE MOUNT, BASED ON SERIES SESI AND CMC							276J	
Procurement Specifications	Manufacturer		Nature of Approval	Supervising Authority		Initial Qualification Date		
Generic ESCC 3201	Exxelia SAS Illange France		Qualification	ESA/ESTEC		April 2004		
Detail ESCC 3201/009 3201/010			Remarks Termination finish shall be Sn60Pb40					
Qualified range:								
3201/009: Variants 01 to 08 are qualified								
3201/010 Variants 01, 03 and 05 are qualified								
Component types:								
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					
Operating Temperature Range (°C): -55 to +125								

6.1 TRANSFORMERS (14)

6.1.1 CCM

Molded SMD Custom Magnetics Components, Linear (CCM) Winding Technology				356C			
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date			
Generic ESCC 3201 Detail ESCC 3201/011	Exxelia SAS Illange France	Qualification	ESA/ESTEC	Jan 2019			
Remarks							
Technology Flow qualified as defined into the current QML published document REP006 (ESCC/RP/QML006).							
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