

**6 COMPONENT CERTIFICATES**

6.1 CAPACITORS (01)

6.1.1 Ceramic Fixed

Capacitors, Ceramic, Type II, High Capacitance, Based on Case Styles BR, CV, and CH				<b>231L</b>
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 3001 Detail ESCC 3001/030	AVX Limited Coleraine Northern Ireland	Qualification	UK Space Agency	Jul 1996
Remarks				
<p>Qualified Range:</p> <p>E12 series</p> <p>Variants 01 to 74 capacitance range for 50V, 100V and 200V, as per Detail Specification Variants 01 to 52, and 59 to 60, for 500V are qualified</p> <p>± 10% tolerance</p> <p>Operating Temperature Range (°C): -55 to +125</p>				

CAPACITORS, CERAMIC, TYPE II, HIGH VOLTAGE, 1.0 TO 5.0 KV, BASED ON CASE STYLES VR, CV, AND CH				262H
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 3001	AVX Limited Coleraine Northern Ireland	Qualification	UK Space Agency	Sep 2000
Detail ESCC 3001/034		Remarks:		
<p>Qualified Range:</p> <p>E12 series</p> <p>Variants 01 to 22 are qualified ±10% tolerance</p> <p>Operating Temperature Range ( C): -55 to +125</p>				

CAPACITORS, FIXED, CHIP, CERAMIC, TYPE II, HIGH VOLTAGE, BASED ON 1812 and 1825				264H	
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date	
Generic ESCC 3009 Detail ESCC 3009/034	AVX Limited Coleraine Northern Ireland	Qualification	UK Space Agency	Feb 2001	
Remarks:					
<p>Qualified Range:</p> <p>Variants 01 to 12 are qualified</p> <p>Terminations:</p> <p>Variants 01 to 12: metallised pads</p>					
Style	Rated Voltage	Capacitance Range			Tolerance (+%)
1812	1.0	3 900	to	22 000	10
	2.0	1 500	to	1 800	10
	3.0	820	to	1 000	10
1825	1.0	27 000	to	56 000	10
	2.0	2 200	to	6 800	10
	3.0	820	to	2 700	10
Operating Temperature Range (°C): -55 to +125					

CAPACITORS, FIXED, CHIP, BASE METAL ELECTRODE, CERAMIC DIELECTRIC TYPE II, BASED ON TYPE TTP, 0402, 0603, 0805, 1206, 1210, 1812, 2220				331A
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 3009	AVX Limited Coleraine Northern Ireland	Qualification	ESA	Apr 2015
Detail ESCC 3009/041		Remarks:		
<p>Qualified Range:</p> <p>E12 value series</p> <p>Variant 01 0402, Cn as in Detail specification, 5%, 10%, 20% tolerances, 16V, 25V, 50V, 100V rated</p> <p>Variant 02 0603, Cn as in Detail specification, 5%, 10%, 20% tolerances, 16V, 25V, 50V, 100V rated</p> <p>Variant 03 0805, Cn as in Detail specification, 5%, 10%, 20% tolerances, 16V, 25V, 50V, 100V rated</p> <p>Variant 04 1206, Cn as in Detail specification, 5%, 10%, 20% tolerances, 16V, 25V, 50V, 100V rated</p> <p>Variant 05 1210, Cn as in Detail specification, 5%, 10%, 20% tolerances, 16V, 25V, 50V, 100V rated</p> <p>Variant 06 1812, Cn as in Detail specification, 5%, 10%, 20% tolerances, 16V, 25V, 50V, 100V rated</p> <p>Variant 07 2220, Cn as in Detail specification, 5%, 10%, 20% tolerances, 16V, 25V, 50V, 100V rated</p> <p>Terminations: Cu and Ag-loaded epoxy + Ni barrier+ Sn/Pb plating finish (10% Pb minimum)</p> <p>Operating Temperature Range (°C):-55 to +125</p>				