

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 | | | | 367B |
|--|---|--------------------|-----------------------|--|
| Procurement Specifications | Manufacturer | Nature of Approval | Supervising Authority | Initial Qualification Date |
| Generic ESCC 3001 ESCC 3009 | | Qualification | UK Space Agency | June 2020 Initial qualification dates of certificates merged into 367. Cert 231: Jul 1996 Cert 262: Sept 2000 Cert 264: Feb 2001 |
| Details ESCC 3001/030 3001/034 3009/034 | Kyocera AVX Northern Ireland | Remarks | | |
| <p>Qualified Range:</p> <p>3001/030 - Capacitors, Ceramic, Type II, High Capacitance, Based on Case Styles BR, CV, and CH</p> <p>E12 series Variants 01 to 74 capacitance range for 50V, 100V and 200V Variants 01 to 52, and 59 to 60, for 500V are qualified</p> <p>3001/034 - Capacitors, ceramic, type II, high voltage, 1.0 to 5.0 kV, based on case styles VR, CV, and CH</p> <p>E12 series Variants 01 to 22 are qualified</p> <p>3009/034 - Capacitors, fixed, chip, ceramic, type ii, high voltage, based on 1812 and 1825</p> <p>Variants 01 to 12 are qualified Terminations: Variants 01 to 12 with metallised pads</p> <p>± 10% tolerance Operating Temperature Range (°C): -55 to +125</p> | | | | |

| CAPACITORS, FIXED, CHIP, BASE METAL ELECTRODE, CERAMIC DIELECTRIC TYPE II, BASED ON TYPE TTP, 0402, 0603, 0805, 1206, 1210, 1812, 2220 | | | | | | | 331D | |
|--|---------------|-------------------------------------|--------------------|------------------------|----|----------------------------|-------------------|----------------|
| Procurement Specifications | | Manufacturer | Nature of Approval | Supervising Authority | | Initial Qualification Date | | |
| Generic ESCC 3009 | | Kyocera AVX Northern Ireland | Qualification | ESA | | Apr 2015 | | |
| Detail ESCC 3009/041 | | | Remarks: | | | | | |
| Qualified Range: | | | | | | | | |
| Value Series | Detailed Spec | Style | Component Variant | Capacitance Range (pF) | | | Rated Voltage (V) | Tolerance (+%) |
| E12 | 3009041 | 0402 | 01 | 2,200 | to | 33,000 | 16 | 5, 10, 20 |
| | | | | 2,200 | to | 33,000 | 25 | |
| | | | | 2,200 | to | 27,000 | 50 | |
| | | | | 2,200 | to | 6,800 | 100 | |
| E12 | 3009041 | 0603 | 02 | 2,200 | to | 180,000 | 16 | 5, 10, 20 |
| | | | | 2,200 | to | 180,000 | 25 | |
| | | | | 2,200 | to | 120,000 | 50 | |
| | | | | 2,200 | to | 18,000 | 100 | |
| E12 | 3009041 | 0805 | 03 | 4,700 | to | 1,000,000 | 16 | 5, 10, 20 |
| | | | | 4,700 | to | 1,000,000 | 25 | |
| | | | | 4,700 | to | 470,000 | 50 | |
| | | | | 4,700 | to | 100,000 | 100 | |
| E12 | 3009041 | 1206 | 04 | 18,000 | to | 2,200,000 | 16 | 5, 10, 20 |
| | | | | 18,000 | to | 2,200,000 | 25 | |
| | | | | 18,000 | to | 1,000,000 | 50 | |
| | | | | 18,000 | to | 390,000 | 100 | |
| E12 | 3009041 | 1210 | 05 | 47,000 | to | 1,000,000 | 16 | 5, 10, 20 |
| | | | | 47,000 | to | 1,000,000 | 25 | |
| | | | | 47,000 | to | 1,000,000 | 50 | |
| | | | | 47,000 | to | 680,000 | 100 | |
| E12 | 3009041 | 1812 | 06 | 150,000 | to | 8,200,000 | 16 | 5, 10, 20 |
| | | | | 150,000 | to | 8,200,000 | 16 | |
| | | | | 150,000 | to | 4,700,000 | 50 | |
| | | | | 150,000 | to | 2,200,000 | 100 | |
| E12 | 3009041 | 2220 | 07 | 560,000 | to | 22,000,000 | 16 | 5, 10, 20 |
| | | | | 560,000 | to | 22,000,000 | 25 | |
| | | | | 560,000 | to | 10,000,000 | 50 | |
| | | | | 560,000 | to | 4,700,000 | 100 | |
| Terminations: Cu and Ag-loaded epoxy + Ni barrier+ Sn/Pb plating finish (10% Pb minimum) | | | | | | | | |
| Operating Temperature Range (°C):-55 to +125 | | | | | | | | |