UF Capacitors

GJB90018-2009 Military Qualification

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### Tantalum Electrolytic Capacitors & Aluminum Electrolytic Capacitors (SMD)

**CA42 Radial Epoxy Dipped Tantalum Capacitor**
- **Operating Temperature:** -55°C to 125°C, 85°C (with rated voltage derating)
- **DC Leakage at 25°C:** 1/10 C/2, 1/10 A (Choose the greater one)
- **Capacitance Range:** 6.3µF to 1000µF
- **Voltage Range:** 6.3V, 10V, 16V, 25V, 35V, 50V
- **Capacitance Tolerance:** ±10%, ±20% (Standard Tolerance)
- **Pitch Size:** 2.54mm & 5.08mm
- **Package Type:** Bulk, Taped Package
- **Cross Reference:** AVX TAP, Kemet T530-T930, Nippon Ceramic
- **Certifications:** JIS C 1273, UL 807, RoHS, Halogen Free, Metal Conflict Free

**CA45 Chip Tantalum Capacitors (General Purpose)**
- **Operating Temperature:** -55°C to 125°C, 85°C (with rated voltage derating)
- **Capacitance Range:** 6.3µF to 1000µF
- **Voltage Range:** 4V, 6.3V, 10V, 16V, 25V, 35V, 40V, 50V, 63V, 75V, 100V
- **Capacitance Tolerance:** ±10%, ±20% (Standard Tolerance)
- **Case Size:** A, B, C, D, E, E mini (SMT)
- **Package Type:** Tape & Reel
- **SPG/MQ:** Reel Qty: A 2000pcs, C 500pcs, D 400pcs
- **Cross Reference:** AVX TA Series, Kemet T471 Series, Vishay 2030
- **Certifications:** JIS C 1273, RoHS, UL 807, ECOL, Halogen Free, Metal Conflict Free

Remark: CA45U Low ESR Chip Tantalum Capacitor available on request

**TCS Series 85°C 2000 Hours V-Chip Aluminum Electrolytic Capacitor (SMD E CAP)**
- **TCS Series:** Standard, 85°C V-chip aluminum electrolytic capacitors
  - **Temperature:** 85°C ± 5°C
  - **Load life:** 2000 hrs
  - **Voltage:** 4V to 100V DC
  - **Capacitance:** 0.1µF to 10000µF
  - **Tolerance:** ±20% at 120Hz, 20°C
  - **Size:** 4x4.5, 5x5, 6.3x5, 6.3x7, 8x6.2, 8x10, 10x10, 15x13.5, 12.3x13.5

**TCK Series 105°C 2000 Hours V-Chip Aluminum Electrolytic Capacitor (SMD E CAP)**
- **TCK Series:** Standard, 105°C V-chip aluminum electrolytic capacitors
  - **Temperature:** 105°C ± 5°C
  - **Load life:** 2000 hrs (1000 hrs for Ø4-Ø8, 3.5-3.4)
  - **Voltage:** 4V to 100V DC
  - **Capacitance:** 0.1µF to 10000µF
  - **Tolerance:** ±20% at 120Hz, 20°C
  - **Size:** 4x4.5, 5x5, 6.3x5, 6.3x7, 8x6.2, 8x10, 10x10, 15x13.5, 12.3x13.5

Remark: Low Impedance & Long Life SMD E Cap Series are available on request

### Plastic Film Capacitors

**CL21 Metallized Polymer Capacitors**
- **Temperature:** -40°C to +105°C (on request)
- **Rated Voltage:** 100VDC, 200VDC, 400VDC, 630VDC, 1200VDC
- **Capacitance:** ±0.1µF to ±10µF
- **Tolerance:** ±5% (Standard), ±10% (Standard)
- **Resistivity:** 100Ω (at 10kHz)
- **Cross Reference:** AVX TA Series, Kemet 471 Series, Vishay 2030
- **Certifications:** JIS C 1273, RoHS, UL 807, ECOL, Halogen Free, Metal Conflict Free

**CBB21 Metallized Polypropylene Capacitor**
- **Temperature:** -40°C to +105°C
- **Rated Voltage:** 100VDC, 200VDC, 400VDC, 630VDC
- **Capacitance:** ±0.1µF to ±10µF
- **Tolerance:** ±5% (Standard), ±10% (Standard)
- **Resistivity:** 100Ω (at 10kHz)
- **Cross Reference:** AVX TA Series, Kemet 471 Series, Vishay 2030
- **Certifications:** JIS C 1273, RoHS, UL 807, ECOL, Halogen Free, Metal Conflict Free

### Ceramic Capacitor (THT & SMD)

**CT41 Radial Multilayer Ceramic Capacitors**
- **Temperature:** -50°C to +125°C
- **Rated Voltage:** 100VDC, 200VDC, 400VDC, 630VDC
- **Capacitance:** ±5% ±10% ±20%
- **Voltage Range:** 50V, 30V, 100V, 200V, 300V, 500V, 1KV, 2KV
- **Pitch Size:** 2.54mm, 5.08mm, Axial lead
- **Chip Size:** 0603, 0805, 1206, 1210, 1212, 1225
- **Shape:** A, B, C1, C2, C3, C4 shape, Axial lead
- **Package Type:** Bulk, Taped, T&R
- **Cross Reference:** MURATA, TDK, Yageo, Ceramic
- **Certifications:** ISO 9001: 2008, RoHS 2011/65/EU, Reach 155 SVHC, Halogen Free

**CT42 Axial Lead Multilayer Ceramic Capacitors**
- **Temperature:** -50°C to +125°C
- **Rated Voltage:** 100VDC, 200VDC, 400VDC, 630VDC
- **Capacitance:** ±5% ±10% ±20%
- **Voltage Range:** 50V, 100V, 200V, 300V, 500V, 1KV, 2KV
- **Pitch Size:** 2.54mm, 5.08mm, Axial lead
- **Chip Size:** 0603, 0805, 1206, 1210, 1212, 1225
- **Shape:** A, B, C1, C2, C3, C4 shape, Axial lead
- **Package Type:** Bulk, Taped, T&R
- **Cross Reference:** Murata, TDK, Yageo, Ceramic
- **Certifications:** ISO 9001: 2008, RoHS 2011/65/EU, Reach 155 SVHC, Halogen Free

### Leadless Varistors (MOVs)

**VAR Series Metal Oxide Varistor (MOVs)**
- **Temperature:** -40°C to +85°C
- **Voltage:** 180V to 1800V
- **Size:** 0603, 0805, 1206, 1402, 2010
- **Tolerance:** ±10%
- **Package Type:** Bulk, Taped, T&R
- **Certifications:** RoHS, Reach 155 SVHC, Halogen Free Cert.

Remark: High Energy MOVs (Advanced Series) available on request