



Ceramic Capacitor (THT & SMD)

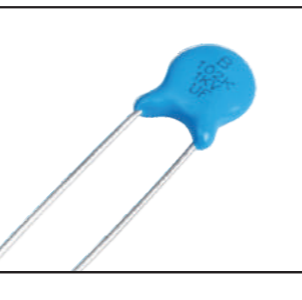
CT4 Radial Multilayer Ceramic Capacitors
CT42 Axial Lead Multilayer Ceramic Capacitors

	NPO	X7R	Y5V	
Temperature:	-55°C~+125°C	-55°C~+125°C	-25°C~+85°C	 <p>CT4 Radial Ledded</p> <p>CT42 Axial Ledded</p>
Tolerance:	±5%	±10%	±20%	
Capacitance:	0.5pF~100uF			
Voltage Range:	50V 63V 100V 200V 500V 1KV 2KV.			
Pitch Size:	2.54mm, 5.08mm, Axial lead			
Chip Size:	0603, 0805, 1206, 1210 Chip Inside			
Shape:	a, b, C1, C2, C3 Shape; axial lead			
Package Type:	Bulk, Ammo Taped, T&R.			
Cross Reference:	Murata RPE series, AVX Skycap SR Series			
Certifications:	ISO 9001: 2015;RoHS ; REACH			


CT41: Chip Multilayer Ceramic Capacitors (Standard Chip MLCC)

Dielectric:	NPO	X7R	Y5V	X5R	
Capacitance:	0.1pF-0.1uF	100pF-47uF	0.01uF-100uF	100pF-220uF	
Tolerance:	±0.25pF; ±0.5pF; ±2%; +/-5%; ±10%; ±20%				
Voltage:	6.3V ~6KV				
Case Size:	0201, 0402, 0603, 0805, 1206, 1210, 1812, 2220.				
Certifications:	ISO 9001: 2015; RoHS 2; REACH				

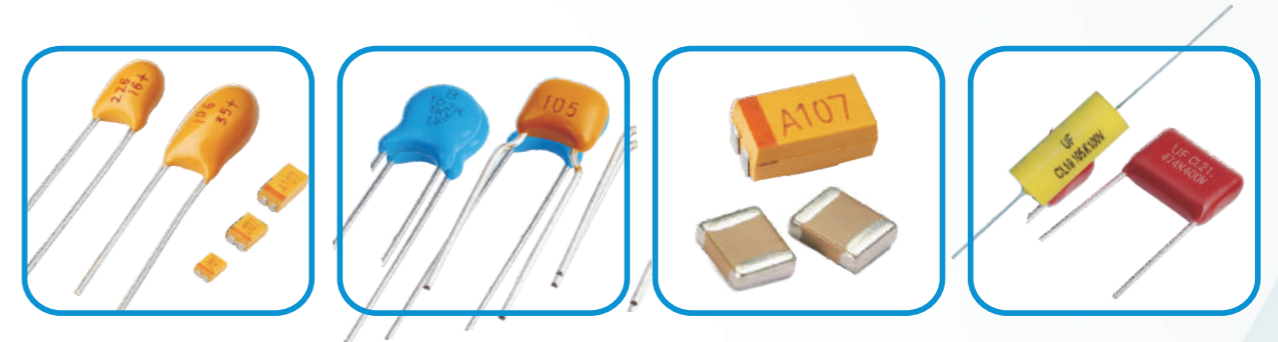
CT81 High Voltage Ceramic Capacitor

Temperature:	-25°C~+85°C	
Tolerance:	±5%; ±10%; ±20%; +80-20%	
Capacitance:	1pF ~0.1uF	
Voltage Range:	500V, 1KV, 2KV, 3KV,4KV,5KV,6KV	
Package Type:	Bulk, Ammo Taped, T&R.	
Dielectric:	SL Y5P Y5U Y5V	
Cross Reference:	Murata DEH, DEA,DEB, DEC, TDK CK45 CC45, Vishay SS Series	
Certifications:	ISO 9001: 2015;RoHS ; REACH	

X1Y1 & X1Y2 SAFETY CAPACITORS
Safety Standard Certified Ceramic Capacitors

Operating Temperature:	-25°C TO +125°C	
Capacitance Range:	100pF to 10000pF	
Capacitance Tolerance:	±10%, ±20%, +80-20%	
Rated Voltage:	X1Y1: X1 400VAC Y1 400VAC X1Y2: X1 400VAC Y2 250VAC	
Safety Approvals:	ENEC, VDE, UL, KC/KTL, CQC	
Temperature Coefficient:	±10% for B Y5P, +30 to -80% for Y5V	
Safety Approvals:	ENEC, VDE, UL, KC/KTL, CQC	
Dielectric Strength:	1500 VAC for 60 seconds. (250VAC) 4000 VAC for 60 seconds. (400VAC)	
Safety Approvals:	ENEC, VDE, UL, KC/KTL, CQC	
Cross Reference:	Murata KX KY series, TDK CS45, Kemet C90 Series	
Certifications:	ISO 9001: 2015; RoHS ; REACH Certification	

UF Capacitors



GJB9001C-2017 Military Parts Qualification
ISO 9001: 2015 & ISO 14001: 2015 Certified Factory

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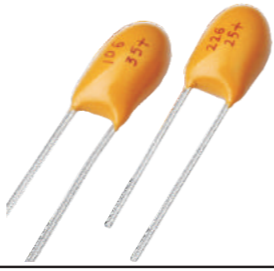
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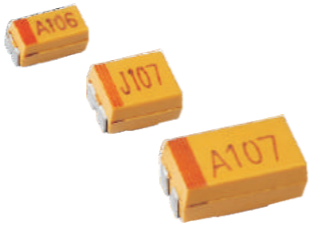
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Tantalum Electrolytic Capacitors & Aluminum Electrolytic Capacitors (SMD)

CA42 Radial Epoxy Dipped Tantalum Capacitor


Operating Temperature:	-55°C~+125°C; >85°C(with rated voltage derating)	
DC Leakage at 25°C:	$I_0 \leq 0.02 C_R U_R$ or 1 uA (Choose the greater one)	
Capacitance Range:	0.1µF~1000µF	
Voltage Range:	6.3V, 10V, 16V, 25V, 35V, 50V	
Capacitance Tolerance:	K: ±10%; M: ±20% (Standard Tolerance)	
Pitch Size:	2.54mm & 5.08mm	
Package Type:	Bulk; Ammo Taped Package	
Cross Reference:	AVX TAP, Kemet T350-T390; Nemco TB Series	
Certifications:	Factory Military Certificate GJB9001C-2017; RoHS ; REACH Compliant; Metal Conflict Free	

CA45 Chip Tantalum Capacitors (General Purpose)


Operating Temperature:	-55°C~+125°C; >85°C(with rated voltage derating)	
DC Leakage at 25°C:	$I_0 \leq 0.02 C_R U_R$ or 1 uA (Choose the greater one)	
Capacitance Range:	0.1µF~1000µF	
Voltage Range:	4V, 6.3V, 10V, 16V, 20V, 25V, 35V, 40V, 50V, 63V, 75V, 100V	
Capacitance Tolerance:	K: ±10%; M: ±20% (Standard Tolerance)	
Case Size:	A, B, C, D, E case (SMT)	
Package Type:	Tape & Reel	
SPQ/MPQ:	Reel Qty.: A B 2000pcs; C D 500pcs; E 400pcs	
Cross Reference:	AVX TAJ series, Kemet T491 Series, Vishay 293D	
Certifications:	Factory Military Certificate GJB9001C-2017; RoHS ; REACH Compliant; 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:	-40°C~ +85°C	
Load life:	2000 hrs.	
Voltage:	4V ~ 100V.DC	
Capacitance:	0.1µF~ 10000µF	
Tolerance:	±20% at 120Hz, 20°C	
Size:	4x5.4, 5x5.4, 6.3x5.4, 6.3x7.7, 8x6.2, 8x10.5, 10x10.5, 10x13.5, 12.5x13.5	
Certifications:	ISO 9001: 2015; ISO 14001:2015; RoHS ; REACH ; Halogen Free Cert.	

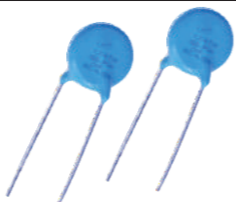
TCK Series 105°C 2000 Hours V-Chip Aluminum Electrolytic Capacitor (SMD E CAP)

TCK Series:	Standard, 105°C V-chip aluminum electrolytic capacitors	
Temperature:	-40°C~ +105°C	
Load life:	2000 hrs. (1000 hrs. for Ø4~Ø6.3x5.4)	
Voltage:	4V ~ 100V.DC	
Capacitance:	0.1µF~ 10000µF	
Tolerance:	±20% at 120Hz, 20°C	
Size:	4x5.4, 5x5.4, 6.3x5.4, 6.3x7.7, 8x6.2, 8x10.5, 10x10.5, 10x13.5, 12.5x13.5	
Certifications:	ISO 9001: 2015; ISO 14001:2015; RoHS ; REACH ; Halogen Free Cert.	

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

Leaded Varistors (MOVs)


VAR Series Metal Oxide Varistor (MOVs)

Temperature:	-40°C~+85°C	
Design:	Leaded Disc, Round type	
Voltage:	18V~1800V	
Size:	05D, 07D, 10D, 14D, 20D	
Tolerance:	±10%	
Package Type:	Cut leg, Bulk, Ammo Taped, T&R.	
Certifications:	ISO 9001: 2015; ISO 14001:2015; RoHS ; REACH ; VDE, UL, CQC safety approvals	

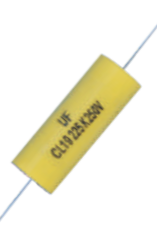
Remark: High Energy MOVs (Advanced Series) available on request

Plastic Film Capacitors


CL21 Metallized Polyester Capacitors

Temperature:	-40°C ~ +85°C (105°C on Request)	
Rated Voltage:	100VDC, 250VDC, 400VDC, 630VDC, 1200V	
Capacitance:	0.01 ~ 10µF	
Tolerance:	±5% (on request), ±10% (Standard)	
Resistance:	$C \leq 0.33\mu F, I_R \geq 30000M\Omega$ at 100VDC 60SEC $C > 0.33\mu F, I_R \geq 10000S(MQ/\mu F)$ at 100VDC 60SEC	
Dissipation Factor:	≤0.01 (at 1KHz)	
Certifications:	ISO 9001: 2015; ISO 14001:2015; RoHS ; REACH ;	


CL19 CL20 Axial Lead Met Polyester Film Capacitors Axial MKT Capacitors

Shape:	CL19: CYCLOIDAL; CL20: Flat Oval Shape	
Temperature:	-40°C ~ +105°C	
Rated Voltage:	100V, 250V, 400V, 630V.DC	
Capacitance:	0.01µF ~ 68µF	
Tolerance:	±5%, ±10%	
Withstand Volt.:	1.6U _R 2s (1.5U _R 5s)	
Certifications:	ISO 9001: 2015; ISO 14001:2015; RoHS ; REACH ;	


CBB81 High Voltage Met. Polypropylene Capacitor

Temperature:	-40°C~+85°C(105°C on Request)	
Rated Voltage:	1000VDC, 1250VDC, 1600VDC, 2000VDC	
Capacitance:	0.001µF ~ 0.15µF	
Tolerance:	±5%; ±10%	
Dissipation:	≤0.1% (at 20°C, 1KHz)	
Package Type:	Bulk, Ammo Taped	
Certifications:	ISO 9001: 2015; ISO 14001:2015; RoHS ; REACH ;	


CL 23 Box Type Metallized Polyester Film Capacitors

Standard:	IEC384-2 GB/T7332-96	
Climatic Category:	55/105/56	
Rated Temperature:	85°C	
Operating Temp.:	55°C~105°C (+85°C to +105°C; decreasing factor 1.25% per °C for UR)	
Rate Voltage:	50/63/100V 250V 400V 630V	
Capacitance:	0.001µF ~ 1.5µF	
Tolerance:	±5%(J), ±10%(K)	
Voltage Proof:	1.6UR (5s)	
Dissipation Factor:	≤0.8% (20°C, 1KHz)	
Insulation Res.:	≥3000MΩ (20°C, 1min) C ≤ .33UF IR * C ≥ 1000M Ω * UF	
Certifications:	ISO 9001: 2015; ISO 14001:2015; RoHS; REACH	


CBB21 Metallized Polypropylene Capacitor

Temperature:	-40°C~+85°C	
Rated Voltage:	100VDC, 250VDC, 400VDC, 630VDC	
Capacitance:	0.01µF~10µF	
Tolerance:	±5%; ±10%	
Dissipation:	≤0.002 (at 1KHz) (typical 0.001 max)	
Package Type:	Bulk, Ammo Taped	
Certifications:	ISO 9001: 2015; ISO 14001:2015; RoHS ; REACH ;	

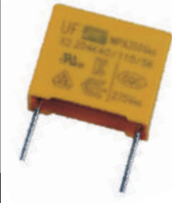
CBB19 CBB20 Axial Lead Met Polypropylene Capacitors Axial MKP Capacitors

Shape:	CBB19: CYCLOIDAL; CBB20: Flat Oval Shape	
Temperature:	-55°C ~ +100°C	
Rated Voltage:	250V, 400V, 630V, 1000V, 1250V.DC	
Capacitance:	0.022µF ~ 56µF	
Tolerance:	±5%, ±10%	
Withstand Volt.:	1.7U _R 2s (1.5U _R 5s)	
Certifications:	ISO 9001: 2015; ISO 14001:2015; RoHS ; Reach ;	

CBB60 Motor Start Capacitor AC Metalized Polypropylene Capacitors

Temperature:	-40°C~ +85°C	
Capacitance:	1µF ~ 100µF	
Tolerance:	±5%; ±10%	
Rated Voltage:	250VAC 450V AC	
Dissipation:	≤0.004 1KHz	
Insulation Res.:	≥3000 S	
Package Type:	Bulk	
Certifications:	ISO 9001:2015VDE, UL, CQC, RoHS	

X2 Metallized Polypropylene Film Capacitor

Temperature:	-40°C~+110°C	
Voltage Rating:	275VAC; 305VAC; 310VAC X2	
Capacitance:	0.001µF ~ 2.2µF	
Tolerance:	±10% standard	
Package:	Bulk, Ammo Tape Package	
Insulation Res.:	CR ≤ 0.33µF, I. R ≥ 15, 000M Ω CR > 0.33µF, I. R ≥ 6, 000S (M Ω / µF)	
Dissipation Factor:	tgδ ≤ 0.0010 1KHZ	
Testing Voltage:	4.3UR DC / 5s	
Approvals:	ENEC, UL, CQC, KC/KTL	
Certifications:	ISO 9001: 2015; ISO 14001:2015; RoHS; REACH	