Website

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Your Reliable Components Partner

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UF CAPACITORS

TOPDIODE GROUP SINCE 1995



- ISO 9001 Certified Factory
- UL Recognized Test Laboratory in Factory

ROHS COMPLIANT · COMPLIANT

REACH COMPLIANT · COMPLIANT

CERTIFIED ISO 9001:2015 COMPANY

UF Capacitors, a division of the Topdiode Group, stands as a distinguished high-tech enterprise specializing in the design, manufacture of capacitors, varistors and NTC thermistor etc.

Our extensive product line covers ceramic capacitors, tantalum capacitors, surface-mount aluminum electrolytic capacitors, film capacitors, audio capacitors, super capacitors, as well as MOVs and NTCs. These components find applications across diverse industries such as solar energy, 5G telecommunications, industrial electronics, household appliances, lighting, security systems, audio equipment, consumer electronics, automotive and military application.

UF Capacitors prides itself on offering competitive pricing and shorter lead times compared to leading US and Japanese brands. Our services are tailored to meet the demands of customers aiming for cost-effectiveness and faster project turnaround times. Choose UF Capacitors as your trusted supplier and enjoy the following advantages:



Investment in R&D

UF Capacitors commitment to continuous improvement is reflected in our increased investment in research and development. This approach helps us stay competitive and aligned with the ever-evolving market trends.



Quality Control

UF capacitor Factory has reliability testing laboratory and UL laboratory. Strict quality control can ensure that components meet the quality requirements of high-end automotive and even military customers.



Alternative Solutions

UF Capacitors's sales team is well-trained to assist companies in finding alternative passive components solutions to replace products from other well-known manufacturers like Murata, AVX, TDK/EPCOS, Kemet, Panasonic, Vishay, Rubycon, Mundorf etc. This flexibility in offering alternative devices can be valuable for customers seeking cost-effective or more readily available components.



Efficiency and Reliability

UF Capacitors emphasizes the high efficiency and excellent reliability of product. This can be crucial for customers looking to reduce costs and address long-lead time challenges in the manufacturing of their projects.



Experienced & Professional

With over 29 years of experience in the market, UF Capacitors has a strong foundation and a deep understanding of market trends and customer requirements.



Product Range

UF Capacitors offers a diverse portfolio of passive components, which can be used in a variety of applications. This range allows customers to find suitable components for their various needs.

Customer Testimonial

How is UF Capacitors/Topdiode sales support rated by customers? What feedback has been received regarding UF Capacitors sales support ?

Axxxxx, one of the UK's top 5 distributors of electronic components, provided the following statement about Topdiode/UF Capacitors after conducting a factory audit.

Additionally, there are positive comments from other valued customers.



Brain
UK Top 5 distributor, Axxxxx

★★★★★

We have been trading with UF Capacitors for many years under private label OEM agreement. In that time we have not experienced any quality issues and haven't had any problems with service or reliability. I have no hesitation in recommending UF Capacitors as a supplier for MLCC caps along with any other products they manufacture.



Anuj
India distributor VXXX

★★★★★

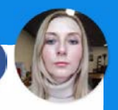
We are discussing many products and after talking to lots of customers. And we find out when it comes to UF Capacitors products, end customer is comfortable to place order directly & without testing.



Greg
UK customer EXXXX Electronics

★★★★★

One of the things I appreciate most about UF Capacitors is their customer service. Their team is always responsive to my inquiries,and they go the extra mile to help me find the right products for my needs. They are also very knowledgeable about their products, and they are always happy to answer any questions I have.



Julia
Russia distributor

★★★★★

We have been cooperating with the UF Capacitors company for several years. Over the years, they have established themselves as a reliable manufacturer of quality components. Very responsive, friendly professionals. Working with them is a great pleasure!

Our Customers

Schneider Electric
Easby Electronics
maytronics
JABIL
BOSCH
GE Power
ALL CIRCUITS
SANMINA
Celestica

Aluminum Electrolytic Capacitors(SMD)

TCS Series 85°C 2000 Hours V-Chip Aluminum Electrolytic Capacitors (SMD E CAP)

TCS series:	Standard, 85℃ V-chip aluminum electrolytic capacitors
Temperature:	-40℃~+85℃
Load life:	2000 hrs
Voltage:	4V~100V
Capacitance Range:	0.1μF~10000μF
Tolerance:	±20% at 120Hz, 20℃
Size(mm):	4x5.4,5x5.4,6.3x5.4,6.3x7.7,8x6.2,8x10.5, 10x10.5.10x13.5,12.5x13.5
Certiflcatlons:	ISO 9001; ISO 14001; RoHS ; REACH; Halogen Free



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

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



TLZ Series 105°C 2000 Hours Low Impedance SMD Electrolytic Capacitors

TLZ Series:	105 ℃ Low Impedance SMD Electrolytic Capacitor
Temperature:	-40°C ~ +105°C
Voltage:	6.3V ~ 50V
Capacitance Range:	1μF ~ 4700μF
Tolerance:	±20% at 120Hz, 20°C
Load life:	After 2000 hrs. (1000 hrs. for Ø4~Ø 6.3×5.4) application of the rated voltage at 105°C.
Size(mm):	4x5.4,5x5.4,6.3x5.4,6.3x7.7,8x6.2,8x10.5, 10x10.5.10x13.5,12.5x13.5



TFZ Series 105°C Long life Extremely Low Impedance SMD Electrolytic Capacitors

TFZ Series:	105°C Long life, Extremely Low Impedance SMD Electrolytic Capacitor
Temperature:	-55℃ ~+105℃
Voltage Range:	6.3V ~ 100V
Capacitance Range:	3.3μF~8200μF
Tolerance:	±20% at 120Hz, 20℃
Load life:	2000~5000 hours
Size(mm):	4x5.8, 5x5.8, 6.3x5.8, 6.3x7.7, 8x10.5, 10x10.5, 10x13.5, 12.5x13.5, 12.5x16, 16x16.5, 18x16.5, 18 x 18.5
Certifications:	ISO 9001; ISO 14001; RoHS; REACH; Halogen Free



TFS Series V-Chip Type, Miniature Size, Long Life, Low ESR Aluminum electrolytic capacitors

Load life:	V-Chip Type, Miniature Size, Long Life, L ow ESR Aluminum electrolytic capacitors
Temperature:	-55℃ ~ +105℃
Voltage :	6.3V ~ 50V
Capacitance Range:	10μF ~ 2200μF
Tolerance:	±20% at 120Hz, 20°C
Load life:	2000H~5000H
Size(mm):	4x5.8, 5x5.8 6.3x5.8, 6.3x7.7,8x10.5, 10x10.5
Certiflcatlons:	ISO9001, ISO14001, RoHS, REACH, Halogen Free



TMB Higher Capacitance Conductive Polymer Aluminum Solid Electrolytic Capacitors

Load life:	2000 hours
Temperature:	-55°C ~ +105°C
Voltage :	2.5V ~ 16V
Capacitance Range:	100μF~ 1000μF
Tolerance:	±20% at 120Hz, 20°C
Leakage Current:	≤Specified value (after 2 minutes application of rated voltage at 20°C)
Dissipation Factor (tan δ):	≤Specified value at 120Hz, 20°C
ESR:	≤Specified value at 100KHz, 20°C
Certiflcatlons:	ISO 9001; ISO 14001; RoHS; REACH; Halogen Free



TPX Series Radial Lead Type, Ultra Long Life Conductive Polymer Aluminum Solid Electrolytic Capacitors

Load life:	20000 hours
Temperature:	-55℃~+105℃
Voltage :	4V ~ 16V
Capacitance Range:	100~1200uF
Tolerance:	±20% at 120Hz, 20°C
Leakage Current:	≤Specified value (after 2 minutes application of rated voltage at 20°C)
Dissipation Factor (tan δ):	≤Specified value at 120Hz, 20°C
ESR	≤Specified value at 100KHz, 20°C
Certiflcatlons:	ISO 9001; RoHS; REACH Halogen Free



Super / Ultra / Faracapacitor Electric Double Layer Capacitors (Coin Cells)

Series:	THT, TSE
Temperature:	-25~85℃, -40~85℃, -25~70℃, -40~70℃
Voltage Range:	2.7V, 3.0V, 3.8V, 5.5V
Capacitance Range:	0.1F~1.5F
Capacitance Tolerance:	-20%~+80%(20℃)
Cross Reference:	#Eaton #KR series, #ELNA #DB series, #Korchip #DCS series.
Certifications:	ISO 9001; RoHS; REACH

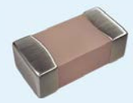


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Ceramic Capacitors (Multilayer & Disc Type)

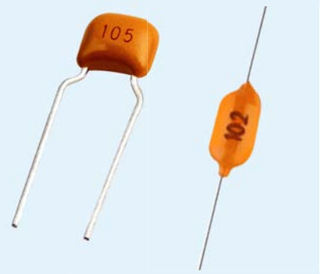
CT41 Chip Multilayer Ceramic Capacitors (Standard Chip MLCC)

Dielectric:	NPO	X7R	Y5V	X5R
Capacitance Range:	0.1pF~0.1μF	100pF~47μF	0.01pF~100μF	100pF~220μF
Tolerance:	±0.25pF; ±0.5pF; ±2%; ±5%; ±10%; ±20%			
Voltage:	6.3V~6KV (Low Voltage & High Voltage)			
Case Size:	0201, 0402, 0603, 0805, 1206, 1210, 1812, 2220			
Certifications:	ISO 9001; RoHS; REACH			



CT4 Radial Multilayer Ceramic Capacitors
CT42 Axial Lead Multilayer Ceramic Capacitors

	NPO	X7R	Y5V
Temperature:	-55℃~+125℃	-55℃~+125℃	-25℃~+85℃
Tolerance:	±5%	±10%	±20%
Capacitance Range:	0.5pF~100μF		
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; RoHS; REACH		



CT81 High Voltage Ceramic Capacitors

Temperature:	-25℃~+85℃
Tolerance:	±5%; ±10%; ±20%; +80-20%
Capacitance Range:	1pF~0.1μF
Voltage :	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; RoHS; REACH



X1Y1 & X1Y2 Safety Capacitors
Safety Standard Certified Ceramic Capacitors

Temperature:	-25℃~+125℃
Capacitance Range:	100pF~10000pF
Tolerance:	±10%, ±20%, +80-20%
Rated Voltage:	X1Y1: X1 400VAC Y1 400VAC / 500VAC X1Y2 : X1 400VAC Y2 250VAC / 300VAC
Safety Approvals:	ENEC, VDE, UL, KC/KTL, CQC
Dielectric Strength:	2500 VAC for 60 seconds. (250VAC) 4000 VAC for 60 seconds. (400VAC)
Cross Reference:	Murata KX KY series, TDK CS45, Kemet C90 Series
Certifications:	ISO 9001; RoHS ; REACH



Tantalum Electrolytic Capacitors

CA42 Radial Epoxy Dipped Tantalum Capacitors

Temperature:	-55℃~+125℃: >85℃(with rated voltage derating)
DC Leakage at 25℃:	$I_0 \leq 0.02\ C_R U_R$ 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



CA45 Chip Tantalum Capacitors (General Purpose)

Temperature:	-55℃~+125℃: >85℃(with rated voltage derating)
DC Leakage at 25℃:	$I_0 \leq 0.02\ C_R U_R$ or 1 μA(Choose the greater one)
Capacitance Range:	0.1μF~1000μF
Voltage Range:	4V, 6.3V, 10V, 16V, 20, 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
Cross Reference:	AVX TAJ series, Kemet T491 Series, Vishay 293D



CA45U Low ESR Chip Tantalum Capacitors

Temperature:	-55℃ ~ +125℃; >85℃ (with rated voltage derating)
DC Leakage at 25℃:	$I_0 \leq 0.01\ C_R U_R$ or 0.5 μA (Choose the greater one)
Capacitance Range:	0.1μF~1000μF
Voltage Range:	4V, 6.3V, 10V, 16V, 20V, 25V, 35V, 40V, 50V, 63V, 75V, 100V
Tolerance:	K: ±10%; M: ±20% (Standard Tolerance)
Case Size:	A, B, C, D, E case (SMT)
Package Type:	Tape & Reel
Cross Reference:	AVX TPS series, Kemet T494 T495, Vishay 593D



CA55 Polymer Tantalum Capacitors

Temperature:	-55℃ ~ +125℃; >85℃ (with rated voltage derating)
DC Leakage at 25℃:	$I_0 \leq 0.1\ C_R U_R$
Capacitance Range:	0.68μF~1000μF
Voltage Range:	2.5V, 4V, 6.3V, 10V, 16V, 20V, 25V, 35V, 40V, 50V
Tolerance:	M: ±20% (Standard Tolerance)
Case Size:	P, A, B, C, D, E, V, W , G, S
Package Type:	Tape & Reel
Cross Reference:	AVX TCJ series, Kemet T520 Series, Vishay T55



VAR Series Metal Oxide Varistors (MOVS)

Temperature:	-40℃~+105℃
Design:	Leaded Disc
Voltage:	18V~1800V
Size:	05D, 07D,10D, 14D, 20D
Tolerance:	+/-10%
Package Type:	Cut leg, Bulk, Ammo Taped



*Advanced series 6KV/3KA Series is available.

NTC Thermistor

Temperature:	-40℃~+200℃
Lead Style:	Inside Kinked (Standard Shape), Straightleads, Y Kinked Leads
Size:	05D, 07D, 09D, 11D, 13D, 15D, 20D
Tolerance:	+/-10%
Package Type:	Bulk, Ammo Taped



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Plastic Film Capacitors

CL21 Metallized Polyester Film Capacitors

Temperature:	-40℃~+85℃(105℃ on Request)
Rated Voltage:	100VDC, 250VDC, 400VDC, 630VDC, 1200VDC
Capacitance Range:	0.01μF~10μF
Tolerance:	±5%(on request), ±10%(Standard)
Resistance:	C≤0.33μF, IR≥30000MΩ at 100VDC60SEC C>0.33μF, JR≥10000S(MΩ/μF) at 100VDC60SEC
Dissipation Factor:	≤0.01(at 1KHz)
Certifications:	ISO 9001; ISO 14001; RoHS; REACH



CL21B Metallized Polyester Film Capacitors(Box-type)

Tempature:	-40℃ ~ +85℃
Voltage:	63VDC, 100VDC, 160VDC, 250VDC, 400VDC, 630VDC
Capacitance Range:	0.01μF ~ 2.2μF
Tolerance:	±5% (J), ±10% (K), ±20%(M),
Dissipation Factor:	≤1.0% (1KHz, 1.0Vrms, 20℃)
Insulation Resistance:	UR > 100V (Test at 100VDC, 60sec, 20℃) C ≤ 0.33μF, IR ≥ 30000MΩ C > 0.33μF, IR ≥ 10000S UR ≤ 100V (Test at 10VDC, 60sec, 20℃) C ≤ 0.33μF, IR ≥ 15000MΩ C > 0.33μF, IR ≥ 5000S
Withstand Voltage:	1.6Ur (5s)



CBB21 Metallized Polypropylene Film Capacitors

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



CBB21B Metallized Polypropylene Film Capacitors(Box-type)

Tempature:	-40℃ ~ +85℃
Rated Voltage:	100VDC, 250VDC, 400VDC, 630VDC
Capacitance Range:	7500pF~0.47μF
Tolerance:	±5% (J), ±10% (K)
Dissipation Factor:	≤1.0% (1KHz, 1.0Vrms, 20℃)
Insulation Resistance:	C ≤ 0.33μF, IR ≥ 50000MΩ (Test at 100VDC, 60sec, 20℃)
Withstand Voltage:	1.6Ur (5s)



CBB81 High Voltage Metallized Polypropylene Film Capacitors

Temperature:	-40℃~+85℃(105℃ on Request)
Rated Voltage:	1000VDC,1250VDC,1600VDC,2000VDC
Capacitance Range:	220pF~0.15μF
Tolerance:	±5%, ±10%
Dissipation Factor:	≤0.1%(at 20℃,1KHz)
Package Type:	Bulk, Ammo Taped
Certifications:	ISO 9001; ISO 14001; RoHS ; REACH



MMKP82 Doublesided Metallized Polypropylene Film Capacitors(Box-type)

Tempature:	-40℃~105℃ (+85℃ to +105℃: decreasing factor 1.25% per ℃ for VR (DC)) (+75℃ to +105℃: decreasing factor 1.25% per ℃ for VR (AC))
Rated Voltage:	250V, 400V, 630V, 1000V, 1600V, 2000V
Capacitance Range:	220pF~3.9μF
Tolerance:	±2%(G), ±3%(H), ±5%(J), ±10%(K), ±20%(M)
Insulation Resistance:	≥50000MΩ CR≤0.33μF ≥15000S CR>0.33μF (20℃, 100V, 1min)
Withstand Voltage:	1.60UR (5S)



Audio Capacitors (MPX)
Premium Metallized Polypropylene Film Capacitors

Temperature:	-55℃~+85℃
Capacitance Range:	0.047μF~100μF
Tolerance:	±3% (I), ±5%(J) 1KHz
Rated Voltage:	250V, 400V, 630VDC
Dissipation Factor:	≤0.0020 1KHz
Certifications:	ISO 9001; RoHS; REACH



Pulse Audio Capacitors (PAC)
Premium Metallized Polypropylene Film Capacitors

Temperature:	-55℃~+85℃
Capacitance Range:	0.1μF~100μF
Tolerance:	±3% (I), 1KHz
Rated Voltage:	250V, 400V, 630VDC
Dissipation Factor:	≤0.0010 1KHz
Certifications:	ISO 9001; RoHS ; REACH



X2 Metallized Polypropylene Film Capacitors

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



*Advanced series THB (Temperature Humidity Bias) is available.

Metallized Polypropylene Film DC-Link Capacitors-TDA Series

Temperature:	-40°C ~ +105°C, (85°C ~105°C, decreasing factor 1.25% per °C for Rated Voltage)
Voltage Range:	450VDC ~ 1200VDC
Capacitance Range:	1.0μF ~ 170μF
Capacitance Tolerance:	±5% or ±10% at +25°C
Dissipation factor:	≤0.002 (0.2%) at 1KHz; C ≤20μF at 25°C ≤0.003 (0.3%) at 1KHz; C >20μF at 25°C
Cross Reference:	Vishay, TDK, Epcos, Wima's DC LINK CAPACITORS
Certifications:	ISO 9001; RoHS; REACH

