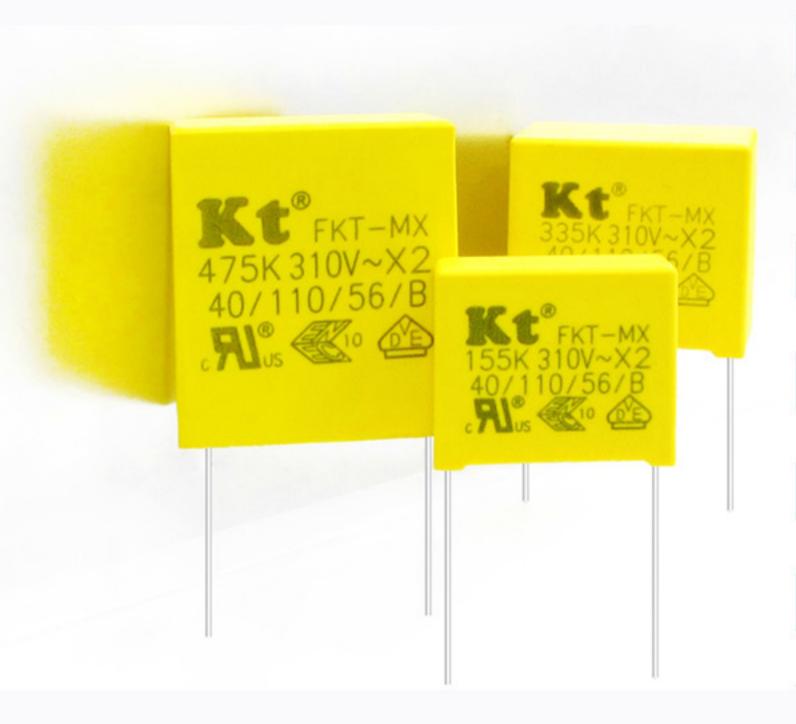


# International Company



METALLIZED POLYESTER FILM CAPACITORS X2 METALLIZED POLYPROPYLENE FILM CAPACITORS (310VAC) POWER FILM CAPACITOR, DC-LINK CAPACITORS AC-LINK CAPACITORS



X2 METALLIZED POLYPR	ROPYLENE FILM CAPA	CITOR					
FKT-MX 310VAC		-40°C~+110°C	0.0047μF-10μF				
BOX TYPE METALLIZED	POLYESTER FILM CAF	PACITOR					
FKT-MB 63V, 100V, 160V	, 250V, 400V, 630V DC	-40°C~+85°C	0.0010μF-2.2μF				
BOX TYPE METALLIZED	POLYPROPYLENE FIL	M CAPACITOR					
FKT-MF 250, 400, 630V E	OC .	-40°C~+85°C	0.0047μF-3.9μF				
HIGH VOLTAGE BOX TYPE METALLIZED POLYPROPYLENE FILM CAPACITOR							
FKT-MH 1000V, 1400/160	00V, 2000V DC	-40°C~+105°C	0.00022μF-0.22μF				
METALLIZED POLYESTER FILM CAPACITOR							
FKT-MC 100V, 250V, 400	V, 630V DC	-40°C~+85°C	0.01μF-6.8μF				
MYLAR POLYESTER FILM CAPACITOR							
FKT-MP 100V,250V,400V	7,630V,1000V,1200V DC	-40°C~+85°C	0.001μF-0.22μF				
METALLIZED POLYPROP	METALLIZED POLYPROPYLENE FILM CAPACITOR						
FKT-ME 100V,250V,400V	7,630V DC	-40°C~+85°C	0.01μF-8.2μF				
HIGH VOLTAGE METALLIZED POLYPROPYLENE FILM CAPACITOR							
FKT-MG 1000V, 1250V, 1:	500V, 1600V, 2000V DC	-40°C~+85°C	0.001μF-0.15μF				
MINI SIZE METALLIZED	POLYESTER FILM CAP	ACITOR					
FKT-MD 50/63V, 100V, 25	50V, 400V, 630V DC	-40°C~+85°C	0.001μF-3.3μF				

ISO 9001:2015 Manufacturer Since 1990





# Kt® Aluminum Electrolytic Capacitors



Aluminum Electro	lytic Capacitors -	SMD Type	
Kingtronics Series	Load Life	Temperatures	Characteristic
GKT-VA	2000H	85°C	Standard
GKT-VT	1000H~2000H	105°C	Standard
GKT-VC	2000H	105°C	Low Leakage Current
GKT-VE	2000H-3000H	105°C	Long Life
GKT-VK	2000H-3000H	105°C	Extra Lower Impedance
GKT-VL	3000H-5000H	105°C	Extra Long Life
GKT-VN	2000H	105°C	Bi-polar
GKT-VZ	1000H-2000H	105°C	Low Impedance
GKT-VU	3000H	105°C	Long Life
GKT-VD	5000H	105°C	Long Life
GKT-VW	10000H	105°C	Long Life
GKT-VH	1000H-2000H	125°C	Long Life
GKT-VF	2000H-5000H	105°C	Super Low Impedance
GKT-VR	2000H-3000H	105°C	Small Size
GKT-VX	2000H	105°C	Small Size
GKT-VY	2000H	105°C	Small Size
GKT-VJ	2000H	105°C	Small Size



Polymer Aluminum Solid Electrolytic Capacitors					
Kingtronics Series	Load Life	Temperatures	Characteristic		
GKT-AS	2000H	105°C	Standard Low ESR		
GKT-AR	2000H	105°C	Super Low ESR		
GKT-AP	2000H	105°C	Low ESR		
GKT-AU	2000H	125°C	High Ripple Current		
GKT-AX	2000H	125°C	High Temperature		



Aluminum Electro	lytic Capacitors -	Radial Type	
<b>Kingtronics Series</b>	Load Life	Temperatures	Characteristic
GKT-GS	2000H	85°C	Super Miniaturized
GKT-GT	2000H	105°C	High Temperature
GKT-GH	2000H	105°C	Low Impedance
GKT-GL	5000H	105°C	Long Life
GKT-GD	3000H~6000H	105°C	Miniaturized, long life
GKT-GE	5000H	130°C	Long life
GKT-GF	5000H	105°C	Miniaturized, high stability
GKT-GQ	4000H~10000H	105°C	Long life, Miniature
GKT-GR	3000H~6000H	105°C	Long life, High frequency
GKT-GU	3000H	105°C	Long life, Miniature
GKT-GZ	6000H-10000H	105°C	Extremely long life
GKT-GN	1000H	105°C	Non-Polarized
GKT-GW	2000H	105°C	Extra Lower Impedance



Aluminum Electroly			
Kingtronics Series	Load Life	Temperatures	Characteristic
GKT-AL	2000H	85°C	Low Leakage Current
GKT-AV	2000H	85°C	Standard
GKT-AT	1000H	105°C	Standard
GKT-AA	1000H	105°C	Audio, DF at Max 4% BP
GKT-AM	1000H	105°C	Audio, DF at Max 5% BP
GKT-AN	1000H	105°C	Audio, DF at Max 10% BP
GKT-AQ	1000H	105°C	Audio, DF at Max 10% BP
GKT-AB	2000H	105°C	Non-Polarized
GKT-AC	2000H	105°C	Bi-Polarized
GKT-AD	1000H	105°C	Audio,Standard



Aluminum Electroly	tic Capacitors - S	Snap-in, Lug and S	Screw Type
Kingtronics Series	Load Life	Temperatures	Characteristic
GKT-SB	1000H	85°C	Snap-in, High Ripple Current
GKT-SS	2000H	85°C	Snap-in, High Ripple Current
GKT-ST	2000H	105°C	Snap-in, High Ripple Current
GKT-SC	5000H	85°C	Snap-in, High Ripple Current
GKT-SD	3000H	105°C	Snap-in, High Ripple Current
GKT-CA	2000H	85°C	Screw, High Ripple Current
GKT-CB	2000H	105°C	Screw, High Ripple Current
GKT-UA	1000H	85°C	Lug, Standard product

# Super Capacitors (Standard Coin-Type, Radial Type, Snap-in Type, Screw Type Terminals)

DKT-DA Series	
Kingtronics Series	DKT-DA
Rated Voltage V <sub>R</sub>	5.5V
Surge Voltage	5.8V
Capacity Range	0.1F~1.5F
Operating Temperature Range	-25°C~+70°C







Normal temperature cycle life: 25°C, 500,000 cycles between VR and 1/2VR, Capacity attenuation≤30%, ESR change≤4 times.

**Product Life** 

High temperature endurance life: 70°C, maintain VR, 1000 hours. Capacity attenuation≤30%, ESR change≤4 times.

DKT-DZ Series	0 1 11		
Kingtronics Series	DKT-DZ 2R7	DKT-DZ 3R0	. Radial type, Snap-in type, Screw Type terminal
Rated Voltage V <sub>R</sub>	2.7V	3.0V	. High energy and high power
Surge Voltage	2.85V	3.15V	. Low ESR
Capacity Range	0.1F~3000F	1F~500F	. Pb-free and RoHS compliant
Operating Temperature	-40°C~+70°C	-40°C~+65°C	
Duodu et I ife	Normal temp		ife∶25°C, 1 million cycles between VR and 1/2VR , enuation≤30%, ESR change≤4 times.
Product Life			e life: Maximum temperature retention VR , 1000 attenuation≤30%, ESR change≤4 times.

DKT-DM Seri	es Low Internal Resis	stance Type	DKT-DY Series	Combined Type
Kingtronics Series	DKT-DM 5R5	DKT-DM 7R5	DKT-DY 5R0	DKT-DY 7R5
Rated Voltage V <sub>R</sub>	5.5V	7.5V	5.0V	7.5V
Surge Voltage	5.8V	7.9V	5.4V	7.9V
Capacity Range	0.1F~5F	0.1F~3.3F	0.1F~5F	0.1F~3.3F
Operating Temperature	-40~	+70°C	-25~	+70°C



**Product Life** 

High temperature endurance life: Maximum temperature retention VR , 1000 hours. Capacity attenuation≤30%, ESR change≤4 times.

DKT-DX Radial Type Super Capacitor						
Operating Voltage Range	2.5V~3.8V	This product adopts the shape of a cylindrical capacitor. The interior is				
Surge Voltage	4.2V	a wound structure, and the positive and negative electrodes are				
Cut-off discharge voltage	2.5V	separated by a separator and impregnated with electrolyte components; the aluminum casing is sealed with a rubber stopper, the				
Cap. Tolerance	-20%~+20%	lead-out method is wire lead-out, and the lead-out pole is on the same				
Operating Temp.	-20°C~65°C; -20°C~85°C (3.5V)	side of the product				
Self Discharge (3months)	3.0V					
Cycle life Expectancy	Normal temperature cycle life: 250,000 times.   △C/C   ≤30%, ESR≤2 times the specified value					
High temperature load	+65°C rated voltage, or +85°C 3.5V voltage, after 1000h,   △C/C   ≤30%, ESR≤2 times the specified val					
High temperature without load	+65°C, after 100	+65°C, after 1000h,   △ C/C   ≤30%, ESR≤2 times the specified value				
Temperature characteristics	+70°C   $\triangle$ C/C   ≤30%, ESR≤ specified value; -20°C   $\triangle$ C/C   ≤50%, ESR≤4 times the specified value					
The steady state damp heat test	+40°C, 9095%RH	, 240h,   △C/C   ≤30%, ESR≤2 times the specified value				

## Kt® SMD 3mm Chip Ceramic Trimmer Capacitors

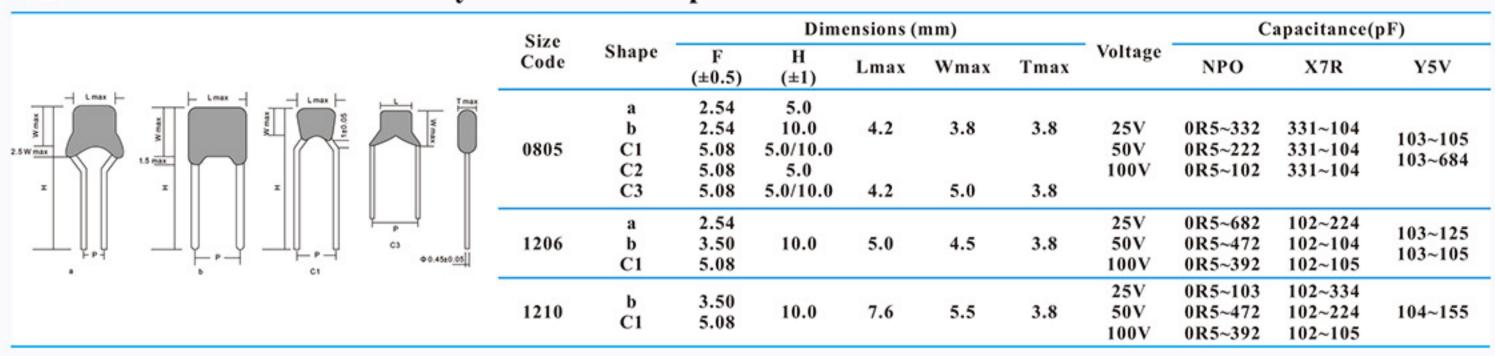
		KKT303TR	KKT306TR	KKT310TR	KKT320TR	KKT330TR
Item	Part No	3pF	6pF	10pF	20pF	30pF
		Black	Blue	Ivory	Pink	Green
Capacitance	e(pF Min)	1.5 MAX	2.0 MAX	3.0 MAX	5.5 MAX	8.0MAX
Capacitance	(pF Max)	3.0+50-0%	6.0+50-0%	10.0+50-0%	20.0+50-0%	28.5+50-0%
Capacitance I	Orift (Max)	±2%	±2%	±2%	±3%	±3%
Temperature Coeff	ficient (ppm/°C)	NPO±300	NPO±200	N600±400	N900±400	N1300±400
Q Value (at 1 M	Ihz, C max)	300min	500 min	700 min	500 min	250 min
DC Working	g Voltage			100 V DC		
DC Withstand	ing Voltage			220 V DC		
Insulation R	esistance			$10^4 M\Omega Min$		
Operating Te	mperature			-25°C to 85°C		
Rotation	Torque			15~72 gf.cm		



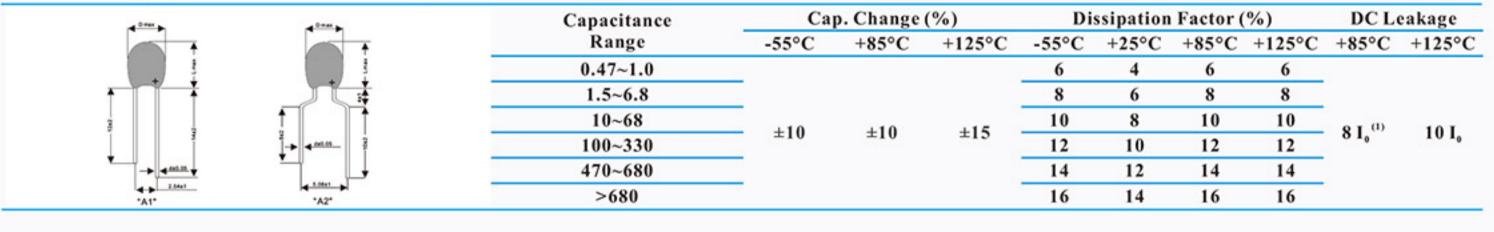
#### Kingtronics<sup>®</sup> International Company

Website: www.kingtronics.com Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099

### Kt® MKT - Radial Multilayer Ceramic Capacitors



#### **TKT - Dipped Tantalum Capacitors**





# LKT - Chip Multilayer Ceramic Capacitors HKT - High Voltage Chip MLCC Capacitors

	LKT	HKT
Voltage	4, 6, 6.3, 10, 25, 50 V DC	100, 200, 250, 500, 630, 1000, 2000V DC
Capacitance	0.1pF ~ 100μF	0.2pF~4.7μF
Terminations	Tin / Nickel	Tin / Nickel
Tolerance	$\pm 0.1  \mathrm{pF}$ , $+80 \sim -20  \%$	$A=\pm 0.05 pF, B=\pm 0.1 pF, C=\pm 0.25 pF, D=\pm 0.5 pF, J=\pm 5\% \ K=\pm 10\%, M=\pm 20\% \ A=\pm 20\% \ A=\pm 10\% \ A=\pm 10$
Packing	Tape and Reel (0201, 0402, 0603, 0805, 1206, 1210, 1812, 1808, 2220, 2225)	N=Bulk, T=Tape & Reel.
Dielectric & Values	NPO X7R X5R X7T X7S X6S Y5V consult product pages of catalog for cap ranges and voltage rating	NPO(COG), X7R, X5R, X7T, X7S, X6S, Y5V

#### CKT - Chip Tantalum Capacitors

Capacitance	Capacitance Change (%)			DF Max. (%)				DCL Max. (μA)		
(μF)	-55°C	+85°C	+125°C	-55°C	+25°C	+85°C	+125°C	+85°C	+125°C	
≤1.0			±12	6	4	6	6	+10 Io	+12 Io	─ サ イ
1.5 ~ 68	±10	±10		10	6	10	10			
100 ~ 470				14	12	14	14			4-S→   4-S→    14

#### EKT - Low ESR Chip Tantalum Capacitors

Technical Data		All technical data relate to an ambient temperature of +25°C											
Capacitance Range	0.47μF ~ 1000μF												
Capacitance Tolerance	±10%; ±20%												
Rated Voltage (VR)	≤+85°C	4	6.3	10	16	20	25	35	50	63			
Category Voltage(Vc)	≤+125°C	2.7	4	6.3	10	15	17	23	33	40			
Surge Voltage (V <sub>s</sub> )	≤+85°C	5.2	8	13	20	26	32	46	65	82			
Surge Voltage (V <sub>s</sub> )	≤+125°C	3.4	5	8	13	16	20	28	40	50			
Temperature Range		-55°C to +125°C											
Termination Finished			Sn Pl	ating (standa	rd), Gold and	d SnPb Platin	g upon requ	est					