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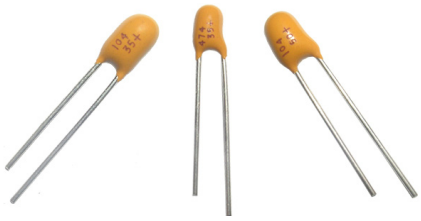

TKT

Tantalum Capacitor – Dipped

■Brief Introduction:

TKT series sinter-anode, epoxy-coated solid electrolyte tantalum capacitors are encapsulated with flame Retardant yellow epoxy powder, marked with laser. TKT Series meets and exceeds the requirements of IEC Specification 384-15-3,IECQ Specification QC300201/US003 and Technical Specification SJ/T10856-96,used In military (on request) and civil applications such as TV sets, camcorders, computers ,Program-controlled electronic telephone switching systems, telephones, instruments and meters.

■Specifications

OPERATING TEMPERATURE	-55℃ to +125℃; >85℃ with rated voltage derating.
RATED VOLTAGE	See table 1
DC LEAKAGE AT 25℃	Io ≤$0.02C_RV_R$ or 1μA (Whichever is greater).
DISSIPATION FACTOR AT 25℃	Please See Table 3
CAPACITANCE RANGE	0.047μF to 680μF
CAPACITANCE TOLERANCE	M (±20%), K(±10%), J(±5%, for special order)
CASE SIZES AND DIMENSIONS	Please see Table 2
TEMPERATURE CHARACTERISTICS	See Table 3

■Rated Voltage, Nominal Capacitance and Case Sizes

Table 1

Rated Voltage (V)	4	6.3	10	16	20	25	35	50
Voltage Derating (V)	2.7	4	7	10	15	17	23	33
Surge Voltage (V) +85℃	5	8	13	20	26	33	46	65
Capacitance (μF)	Case Size							
0.1							A	A
0.15							A	A
0.22							A	A
0.33						A	A	A
0.47					A	A	A	A
0.68					A	A	A	B
1.0				A	A	A	A	B
1.5				A	A	A	A	B
2.2			A	A	A	A	B	C
3.3		A	A	A	A	A	B	C
4.7	A	A	A	A	A	B	B	D
6.8	A	A	A	A	B	B	C	D
10	A	A	A	A	B	B	C	E
15	A	A	A	B	C	C	D	E
22	A	A	B	B	C	C	D	F
33	A	B	B	C	C	D	E	
47	B	B	C	C	D	D	E	
68	B	C	C	D	D	E		
100	C	C	C	D	E	E		
150	C	D	D	E	E			
220	D	D	E	E				
330	D	E	E					
470	E	E						
680	E	F						

■Dimensions (unit: mm)

Table 2

Case Size	D (max)	L (max)	A1	A2	d (±0.05mm)
A	4.5	7.0	2.54	5.08	0.5
B	5.0	8.0	2.54	5.08	0.5
C	5.5	9.5	2.54	5.08	0.5
D	6.5	11.0	2.54	5.08	0.5
E	8.5	13.0	2.54	5.08	0.5
F	9.5	16.5	2.54	5.08	0.5

■Temperature Characteristics

Table 3

Capacitance (uF)	Cap. Change (%)			DF Max. (%)				DCL Max. (μF)		
	-55℃	+85℃	+125℃	-55℃	+25℃	+85℃	+125℃	+25℃	+85℃	+125℃
<1.0	±10	±15	±25	6	4	6	6	Io≤0.02 C_RV_R or 1uF whichever is greater	+10 Io	+12.5Io
1.5 ~ 6.8				8	6	8	8			
10 ~ 68				10	8	10	10			
100 ~ 680				12	10	12	12			

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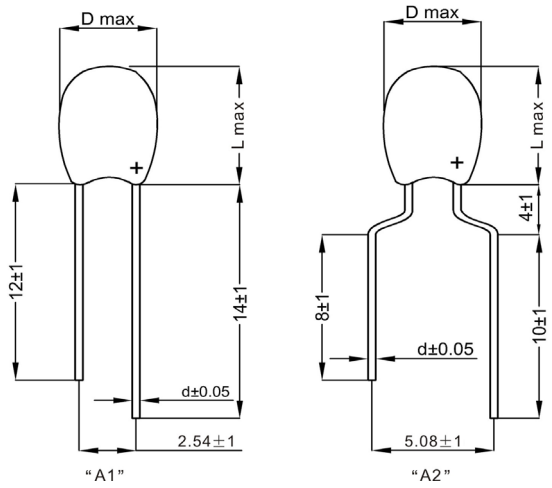
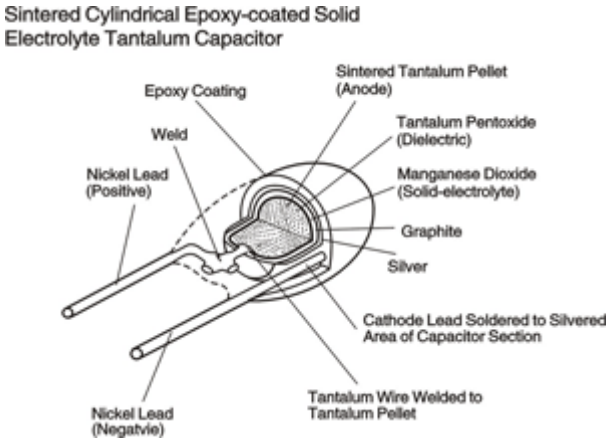
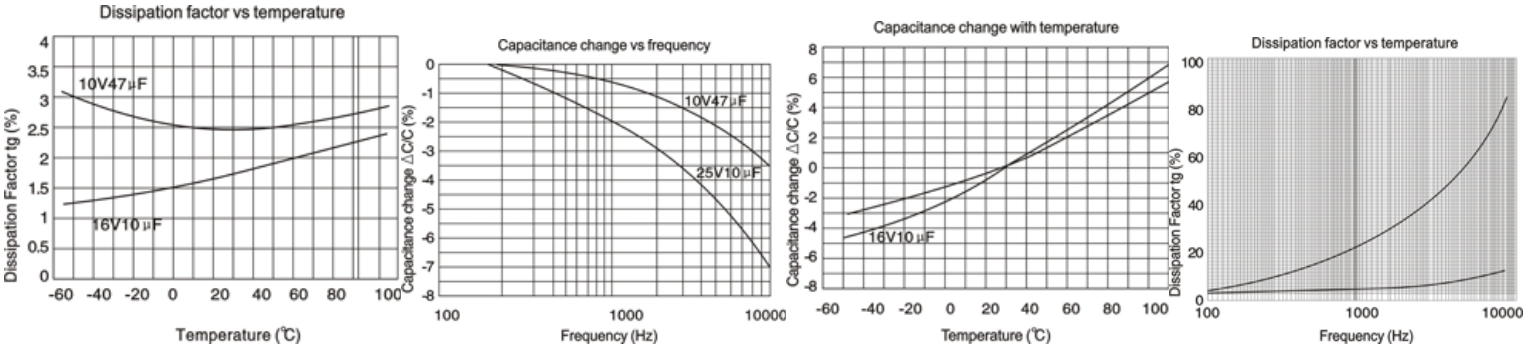




■Typical Characteristic Curve



■HOW TO ORDER

TKT	0R1	M	350	2	B	R
|	|	|	|	|	|	|
Series	1.	2.	3.	4.	5.	6.

NOTE:

1. Nominal Capacitance

Code	0R1	R22	010	2R2	220	221
Capacitance	0.1uF	0.22uF	1uF	2.2uF	22uF	220uF

2. Capacitance Tolerance

Code	J	K	M
Tolerance	±5%	±10%	±20%

3. Rated Voltage

Code	040	060	100	160	200	250	350	500
Voltage	4V	6.3V	10V	16V	20V	25V	35V	50V

4. Pitch

Code	2	5
Pitch (mm)	2.54	5.08

5. Packing

Code	A	B
Packing	Ammo	Bulk

6. Pb

Code	L	R
Pb	Leaded	RoHS

Note: Specifications are subject to change without notice.