

TMCJ Series (Ultra Small Package, 0603 Size Chip Tantalum Capacitor.)

Features

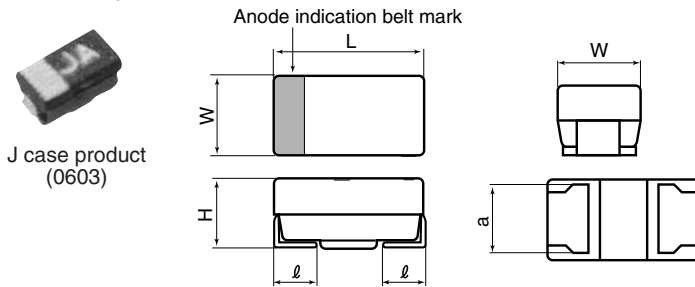
- Rendered even smaller-sized thanks to accumulated technological know-how of TMCP. (reduced to about 1/3 the cubic volume of the TMCP type)
- Suitable for high-density packaging essential to Audio Visual and other equipment downsizing.

Product symbol : (Example) TMCJ Series 6.3V 10 μ F $\pm$ 20%

TMC J 0J 106 M T R F

Type of series	TMC	J	0J	106	M	T	R	F	Tinned plated terminals (Sn 100)
Case size code	J								Packing polarity code
									Packing method code (T: carrier tape)
									Capacitance tolerance code (M: $\pm$ 20%)
									Capacitance code
									Rated voltage code

Outline of drawings and dimensions



Dimensions

(Unit: mm)

Case code	Case size				
	L $\pm$ 0.1	W $\pm$ 0.1	H $\pm$ 0.1	ϕ $\pm$ 0.15	a $\pm$ 0.1
J	1.6	0.8	0.8	0.3	0.6

Standard value and case size

Capacitance		Rated voltage (V.DC)					
		2.5	4	6.3	10	16	20
μF	Code	0E	0G	0J	1A	1C	1D
0.68	684						J
1.0	105					J	
1.5	155				J	J	
2.2	225			J	J	J	
3.3	335			J	J		
4.7	475	J	J	J	J		
6.8	685	J	J	J			
10	106	J	J	J			
15	156	J	J				
22	226	J	J				

Standard product tables - TMCJ series

Rated voltage V. DC	capacitance μ F	tan δ	Leakage current μ A	case code	Product name
2.5	4.7	0.2	0.5	J	TMCJ0E475
	6.8	0.2	0.5	J	TMCJ0E685
	10	0.2	0.5	J	TMCJ0E106
	15	0.2	0.5	J	TMCJ0E156
	22	0.2	0.5	J	TMCJ0E226
4	4.7	0.2	0.5	J	TMCJ0G475
	6.8	0.2	0.5	J	TMCJ0G685
	10	0.2	0.5	J	TMCJ0G106
	15	0.2	6.0	J	TMCJ0G156
	22	0.2	8.8	J	TMCJ0G226
6.3	2.2	0.2	0.5	J	TMCJ0J225
	3.3	0.2	0.5	J	TMCJ0J335
	4.7	0.2	0.5	J	TMCJ0J475
	6.8	0.2	0.5	J	TMCJ0J685
	10	0.2	0.6	J	TMCJ0J106
10	1.5	0.2	0.5	J	TMCJ1A155
	2.2	0.2	0.5	J	TMCJ1A225
	3.3	0.2	0.5	J	TMCJ1A335
	4.7	0.2	0.5	J	TMCJ1A475
16	1	0.2	0.5	J	TMCJ1C105
	1.5	0.2	0.5	J	TMCJ1C155
	2.2	0.2	0.5	J	TMCJ1C225
20	0.68	0.2	0.5	J	TMCJ1D684

Product specifications

Product specifications	TMCJ				Test conditions JIS C5101-1:1998	
Operating temperature range	-55°C ~ +125°C					
Rated voltage	DC2.5 ~ 20V				85°C	
Surge voltage	DC3.2 ~ 26V				85°C	
Derated voltage	DC1.6 ~ 13V				125°C	
Capacitance	0.68 ~ 22μF					
Capacitance tolerance	±20%				Paragraph 4.7, 120 Hz	
Leakage current	Refer to table standard product table				Paragraph 4.9, in 5 minutes after the rated voltage is applied.	
tanδ	0.2 or less				Paragraph 4.8, 120Hz	
Surge withstanding voltage	△C/C ±20% or less tanδ Specified initial value or less LC Specified initial value or less				Paragraph 4.26	
Temperature characteristics		Specified initial value	-55	85	125	Paragraph 4.24
	△C/C	-	-20 ~ 0%	0 ~ +20%	0 ~ +20%	
	tanδ	0.2	0.3	0.2	0.3	
	Value shown table or less					
	LC	Refer to standard product table	-	100% or less specified initial value or less	125% or less specified initial value or less	
Solder heat resistance	△C/C ±20% or less tanδ Specified initial value or less LC Specified initial value or less				Solder Dip 260±5°C 10±1 sec. Reflow 260°C 10±1 sec.	
Moisture resistance no load	△C/C ±20% or less tanδ 150% Specified initial value or less LC Specified initial value or less				Paragraph 4.22, 40°C 90 ~ 95%RH,500hours	
High-temperature load	△C/C ±20% or less tanδ Specified initial value or less LC 200% Specified initial value or less				Paragraph 4.23, 85°C The rated voltage is applied for 2000 hours.	
Thermal shock	△C/C ±20% or less tanδ Specified initial value or less LC Specified initial value or less				Leave at -55°C, normal temperature, 125°C, and normal temperature for 30 min., 3 min., 30 min., and 3 min. Repeat this operation 5 times running.	
Failure rate	1%/1000hours				85°C. The rated voltage is applied (through a protective resistor of 1 Ω/V).	

※ This catalog is designed for providing general information. Please inquire of our Sales Department to confirm specifications prior to use.

Marking indication TMCJ series

J case		① Anode indication belt mark ② Simplified code of rated voltage (J: 6.3V) ③ Simplified code of nominal capacitance (A: 10 μ F)
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