



Specifications

Items	Specifications	
Size code	B1	D2
Category temperature range	-55 to +105 °C	
Rated voltage range	6.3 to 12.5 V.DC	
Rated capacitance range	10 to 47 μ F	68 to 330 μ F
Capacitance tolerance	± 20 (120 Hz/+20 °C)	
Leakage current	Please see the attached characteristics list	
Dissipation factor(tan δ)	Please see the attached characteristics list	
Surge voltage	Rated voltage x1.15	
Endurance	105°C 2,000h, (B1 size:1,000h) rated voltage applied *Rated temp. 85°C 1,000h rated voltage applied	
	$\Delta C/C$	Within ± 20 % of the initial value
	DF	≤ 1.5 times of the initial limit
	LC	Within the initial limit
Damp heat (Steady State)	60°C, 90 to 95% RH 500h, No-applied voltage	
	$\Delta C/C$	Within +40 %, -20 % of the initial value
	DF	≤ 1.5 times of the initial limit
	LC	≤ 3 times of the initial limit

Marking and dimensions

B1 size

D2 size

(unit : mm)

Size code	L ± 0.2	W ± 0.2	H ± 0.1	S ± 0.2	W1 ± 0.1
B1	3.5	2.8	1.1	0.8	2.2
D2	7.3	4.3	1.9	1.3	2.4

R. Voltage (V.DC)	6.3	8.0	10	12.5
Code	j	k	A	B

B1size

R. Cap. (μ F)	10	15	22	33	47
Code	A7	E7	J7	N7	S7

Characteristics list

Series	Rated voltage (V.DC)	Rated temp. (°C)	Category voltage (V.DC)	Category temp. (°C)	Rated capacitance (μ F)	Case size (mm)			Size code	Specifications				Standard	
						L	W	H		Maximum allowable ripple current (mA rms) 100 kHz $\times 1$	ESR $\times 2$ (m Ω max.)	tan $\delta \times 3$	LC $\times 4$ (μ A)	Part number	Min. Packaging Qty (pcs)
TPC	6.3	85	5.0	105	47	3.5	2.8	1.1	B1	1100	55	0.10	29.6	6TPC47M	3000
		85	5.0	105		3.5	2.8	1.1		1000	70	0.10	29.6	6TPC47MB	3000
		105	6.3	105	100	7.3	4.3	1.9	D2	1700	45	0.10	63.0	6TPC100M	3000
		105	6.3	105	150	7.3	4.3	1.9	D2	1900	40	0.10	94.5	6TPC150M	3000
		85	5.0	105	330	7.3	4.3	1.9	D2	1900	40	0.10	207.9	6TPC330MA	3000
	8.0	85	6.3	105	22	3.5	2.8	1.1	B1	1000	70	0.10	17.6	8TPC22M	3000
		105	8.0	105	150	7.3	4.3	1.9	D2	1900	40	0.10	120.0	8TPC150M	3000
	10	105	10.0	105	68	7.3	4.3	1.9	D2	1700	45	0.10	68.0	10TPC68M	3000
		105	10.0	105	100	7.3	4.3	1.9	D2	1700	45	0.10	100	10TPC100M	3000
	12.5	85	10.0	105	10	3.5	2.8	1.1	B1	800	80	0.10	12.5	12TPC10M	3000
85		10.0	105	15	3.5	2.8	1.1	B1	800	80	0.10	18.8	12TPC15M	3000	

※1: Ripple current (100 kHz/ +45 °C), ※2: ESR (100 kHz/+20 °C) ※3: tan δ (120 Hz/+20 °C) ※4: After 5 minutes

◆Please refer to each page in this catalog for "Reflow conditions" and "Taping specifications".