

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Surface Mount Type

POSCAP

Series: TPC

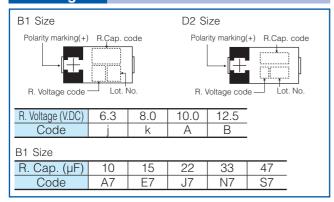


Features

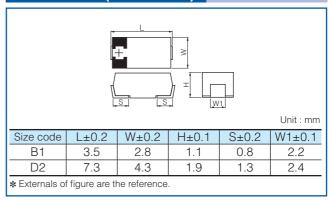
- Low profile (Height 1.1 mm)
- RoHS compliance, Halogen free

Specifications									
Size code		B1	D2						
Category temperature range	−55 °C to +105 °C								
Rated voltage range	6.3 V.DC	C to 12.5 V.DC	6.3 V.DC to 10 V.DC						
Category voltage range	5.0 V.DC	C to 10.0 V.DC	6.3 V.DC to 10 V.DC						
Rated capacitance range	10 μ	F to 47 μF	68 μF to 330 μF						
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 (V.DC)	Rated voltage × 1.15								
	+105 °C 2000h, (B1 size: 1000h) rated voltage appled								
	* Rated temp. +85 °C 1000h rated voltage applied								
Endurance	Capacitance change	Within ±20 % of the initial value							
	tan δ	≤ 1.5 times of the initial limit							
	DC leakage current	Within the initial limit							
	+60 °C, 90 % to 95 %, 500 h, No-applied voltage								
Damp heat	Capacitance change	tance change Within +40 %, -20 % of the initial value							
(Steady State)	$ an \delta$	≤ 1.5 times of the initial limit							
	DC leakage current	t ≤ 3 times of the initial limit							

Marking



Dimensions (not to scale)



Characteristics list

	Rated voltage (V.DC)	temp.	voltage t	Category	Rated	Case size (mm)				Specifications				Standard	
Series				temp.	capacitance (µF)	L	W	Н	Size code	Ripple *1 current (mAr.m.s.)	ESR *2 (mΩ max.)	tan δ^{*3}	LC*4 (µA)	Part number	Min. Packaging Q'ty (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	100.0	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 catarog for "Reflow conditions" and "Taping specifications"