

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







Surface Mount Type

POSCAP

Series: TPB

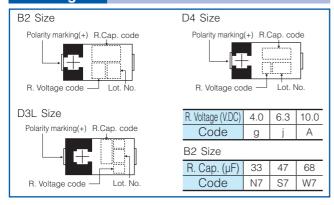


Features

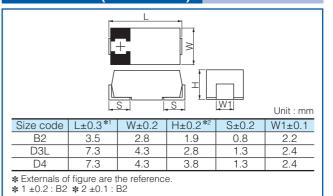
- Standard
- RoHS compliance, Halogen free

Specifications										
Size code	B2		D3L	D4						
Category temperature range	−55 °C to +105 °C									
Rated voltage range		6.3 V.DC to 10 V.DC								
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Rated capacitance range	33 μF to 68 μ	ıF	150 μF to 330 μF	220 μF to 470 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, (B2 size: 1000h) rated voltage appled									
	* Rated temp. +85 °C 1000h rated voltage applied									
Endurance	Capacitance change Within ±20 % of the initial value									
		≤ 1.5 times of the initial limit								
	DC leakage current									
	+60 °C, 90 % to 95 %, 500 h, No-applied voltage									
Damp heat	Capacitance change	apacitance change Within +40 %, -20 % of the initial value								
(Steady State)	tan δ	≤ 1.5 times of the initial limit								
	DC leakage current ≤ 3 times of the initial limit									

Marking



Dimensions (not to scale)



Characteristics list

	Rated voltage (V.DC)	temp. vol			Rated capacitance (µF)	Case size (mm)				Specifications			Standard		
Series			Category voltage (V.DC)	Category temp. (°C)		L	W	Н	code	Ripple *1 current (mAr.m.s.)	FOD *2	tan δ^{*3}	LC*4 (µA)	Part number	Min. Packaging Q'ty (pcs)
TPB	4.0	105	4.0	105	68	3.5	2.8	1.9	B2	1100	70	0.08	27.2	4TPB68M	2000
		105	4.0	105	330	7.3	4.3	2.8	D3L	2000	40	0.10	132.0	4TPB330ML	2500
	6.3	105	6.3	105	68	3.5	2.8	1.9	B2	1100	70	0.08	42.8	6TPB68M	2000
		105	6.3	105	220	7.3	4.3	2.8	D3L	2000	40	0.10	138.6	6TPB220ML	2500
		85	5.0	105	330	7.3	4.3	2.8		2000	40	0.10	207.9	6TPB330MAL	2500
		105	6.3	105		7.3	4.3	2.8		2000	40	0.10	207.9	6TPB330ML	2500
		105	6.3	105		7.3	4.3	3.8	D4	3000	40	0.10	207.9	6TPB330M	2000
		105	6.3	105	470	7.3	4.3	1.3 3.8		3000	35	0.15	296.1	6TPB470M	2000
	10	105	10.0	105	33	3.5	2.8	2.8 1.9	B2	1100	70	0.08	33.0	10TPB33M	2000
		105	10.0	105	47	3.5	2.8	1.9		1100	70	0.08	47.0	10TPB47M	2000
		105	10.0	105	150	7.3	4.3	2.8	D3L	2000	40	0.10	150.0	10TPB150ML	2500
		105	10.0	105		7.3	4.3	2.8		2000	40	0.10	220.0	10TPB220ML	2500
		105	10.0	105	220	7.3	4.3	3.8	D4	3000	40	0.10	220.0	10TPB220M	2000
		105	10.0	105	330	7.3	4.3	3.8		3000	35	0.10	330.0	10TPB330M	2000

- *1 Ripple current (100 kHz/ +45 °C), *2 ESR (100 kHz/ +20 °C) *3 $\tan \delta$ (120 Hz/ +20 °C) *4 After 5 minutes
- ♦ Please refer to each page in this catarog for "Reflow conditions" and "Taping specifications".