imall

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

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Surface Mount Type

POSCAP



Series : TPG

Features

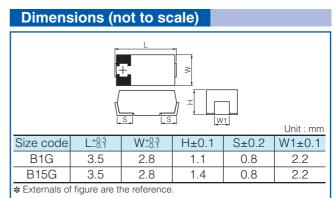
- Small size, Low profile (L3.5 × W 2.8 × H 1.1 mm)
- Large capacitance (220 µF max.)
- RoHS compliance, Halogen free

Specifications

opcomodiono											
Size code		B1G	B15G								
Category temperature range	–55 °C to +105 °C										
Rated voltage range	2.5 V.DC	C to 12.5 V.DC	2.5 V.DC to 6.3 V.DC								
Category voltage range	2.0 V.DC	C to 10.0 V.DC	2.0 V.DC to 5.0 V.DC								
Rated capacitance range	33 µF	⁻ to 220 μF	150 μF to 220 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										
Endurance	+85 °C, 1000 h rated voltage applied										
	Capacitance change	Within ±20 % of the initial value									
	tan δ	≤ 1.5 times of the initial limit									
	DC leakage current	t Within the initial limit									
Damp heat (Steady State)	+60 °C, 90 % to 95 %, 500 h, No-applied voltage										
	Capacitance change	acitance change Within +40 %, -20 % of the initial value									
	tan δ	≤ 1.5 times of the initial limit									
	DC leakage current	ent ≤ 3 times of the initial limit									

Marking

Polarity marking(+) R.Cap. code										
R. Voltage (V.DC)	2.5	4.0	6.3	8.0	10.0	12.5				
Code	е	g	j	k	Α	В				
R. Cap. (µF)	33	47	100	150	220					
Code	N7	S7	A8	E8						



Characteristics list

Series	Rated voltage (V.DC)		Category voltage (V.DC)	Category temp. (°C)	Rated capacitance (µF)	Case size (mm)				Specifications			Standard		
						L	W	Н	code	Ripple *1 current (mAr.m.s.)	ESR *2 (mΩ max.)	tan δ^{*^3}	LC *4 (µA)	Part number	Min. Packaging Q'ty (pcs)
TPG	2.5	85	2.0	105	220	3.5	2.8	1.1	B1G	1000	70	0.10	55.0	2R5TPG220M	2500
		85	2.0	105		3.5	2.8	1.4	B15G	1400	30/300 kHz	0.10	110.0	2R5TPG220MUG	2500
	4	85	3.2	105	220	3.5	2.8	1.4	BISG	1000	70	0.10	88.0	4TPG220M	2500
	6.3	85	5.0	105	100	3.5	2.8	1.1	B1G	1000	70	0.10	63.0	6TPG100M	2500
		85	5.0	105		3.5	2.8	1.1		1100	55	0.10	63.0	6TPG100MG	2500
		85	5.0	105		3.5	2.8	1.1		1200	35/300 kHz	0.10	126.0	6TPG100MZGD	2500
		85	5.0	105	150	3.5	2.8	1.4	B15G	1000	70	0.10	94.5	6TPG150M	2500
		85	5.0	105		3.5	2.8	1.4		1200	35/300 kHz	0.10	189.0	6TPG150MZG	2500
	8	85	6.3	105	47	3.5	2.8	1.1	B1G	1000	70	0.10	37.6	8TPG47M	2500
	10	85	8.0	105	47	3.5	2.8	1.1		1000	70	0.10	47.0	10TPG47M	2500
	12.5	85	10.0	105	33	3.5	2.8	1.1		1000	70	0.10	41.3	12TPG33M	2500

*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".

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use Should a safety concern arise regarding this product, please be sure to contact us immediately.