Surface Mount Type

POSCAP



Series : TPG

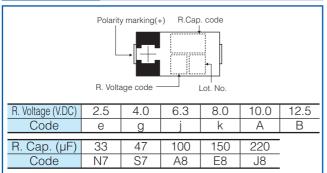
Features

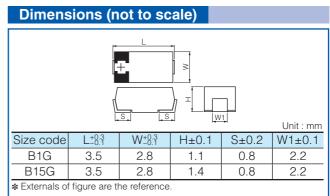
- Small size, Low profile (L3.5 × W 2.8 × H 1.1 mm)
- Large capacitance (220 µF max.)
- RoHS compliance, Halogen free

Specifications

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	ge 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 Within +40 %, -20 % of the initial value										
(Steady State)	tan δ	≤ 1.5 times of the initial limit									
	DC leakage current	C leakage current ≤ 3 times of the initial limit									

Marking





Characteristics list

			Catagony	Category	Rated capacitance (µF)	Case size (mm)			Specifications			Standard		Floor life			
Series			voltage (V.DC)	temp. (°C)		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)	Reflow Temp ≦ 260°C	Reflow Temp ≤ 250°C
TPG	2.5	85	2.0	105	220	3.5	2.8	1.1	B1G	1000	70	0.10	55.0	2R5TPG220M	2500		3
		85	2.0	105	220	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		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	3	
		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	

*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".

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