

Surface Mount Type

TPG series





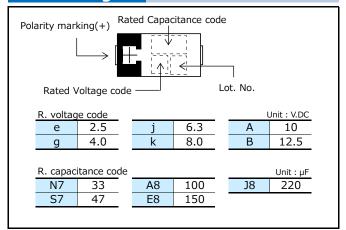


Features

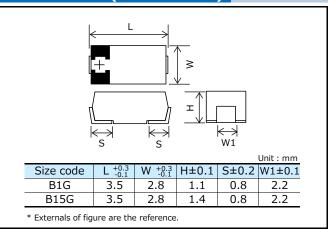
- Small size, Low profile (L 3.5 × W 2.8 × H 1.1 mm)
- Large capacitance (220 µF max.)
- RoHS compliance, Halogen free

Specifications									
Size code	B1G		B15G						
Category temp. range	-55 ℃ to +105 ℃								
Rated volt. range	2.5 V.DC to 1	2.5 V.DC	2.5 V.DC to 6.3 V.DC						
Category volt. range	2.0 V.DC to	10 V.DC	2.0 V.DC to 5.0 V.DC						
Rated cap. range	33 μF to 2	20 μF	150 μF to 220 μF						
Capacitance tolerance									
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								
	+85 ℃ 1000 h rated voltage applied								
Endurance	Capacitance change	Within ±20 % of the initial value							
Lildurance	Dissipation factor(tan δ)	≤ 1.5 times of the initial limit							
	Leakage current	Within the initial limit							
	+60 ℃, 90 % to 95 %, 500 h, No-applied voltage								
Damp heat	Capacitance change	Within +40 %, −20 % of the initial value							
(Steady State)	Dissipation factor(tan δ)	pation factor(tan δ) ≤ 1.5 times of the initial limit							
	Leakage current	≤ 3 times of the init	ial limit						

Marking



Dimensions (not to scale)



Characteristics list

Rated volt. (V.DC)	Rated temp. (℃)	Cate- gory volt. (V.DC)	Cate- gory temp. (℃)	Rated cap. (µF)	Case size (mm)			Specifications			Standard		Floor life level				
					L	W	Н	Size code	Ripple*1 current (mA r.m.s.)	ESR ^{*2} (mΩ max.)	tan δ ^{*3}	LC ^{*4} (μΑ)	Part number	Min. packaging q'ty (pcs)	Reflow temp ≤260℃	Reflow temp ≤250°C	
2.5	85	2.0	105	220	3.5	2.8	1.1	B1G	1000	70	0.10	55	2R5TPG220M	2500			
2.5	85	2.0	105	220	3.5	2.8	1.4	B15G	B15C	1400	30/300 kHz	0.10	110	2R5TPG220MUG	2500		
4.0	85	3.2	105	220	3.5	2.8	1.4		1000	70	0.10	88	4TPG220M	2500			
6.3	85	5.0	105	100	3.5	2.8	1.1	B1G	1000	70	0.10	63	6TPG100M	2500 2500 2500 2500			
	85	5.0	105		3.5	2.8	1.1		1100	55	0.10	63	6TPG100MG				
	85	5.0	105		3.5	2.8	1.1		1200	35/300 kHz	0.10	126	6TPG100MZGD		3	3	
	85	5.0	105	150	3.5	2.8	1.4	B15G	1000	70	0.10	94.5	6TPG150M				
	85	5.0	105		3.5	2.8	1.4		1200	35/300 kHz	0.10	189	6TPG150MZG	2500	00	l	
8.0	85	6.3	105	47	3.5	2.8	1.1		1000	70	0.10	37.6	8TPG47M	2500			
10	85	8.0	105	47	3.5	2.8	1.1	B1G	B1G	1000	70	0.10	47	10TPG47M	2500		
12.5	85	10	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 ℃) *3: tan δ (120 Hz / +20 °C)
- ◆ Please refer to each page in this catarog for "Reflow conditions", "Taping specifications" and "Floor life level".



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