



- Small size, Low profile (L3.5xW2.8xH1.1 mm)
- Large capacitance (220 μ F max.)
- RoHS compliance, Halogen free

Specifications

Items	Specifications	
Size code	B1G	B15G
Category temperature range	-55 to +105 °C	
Rated voltage range	2.5 to 12.5 V.DC	
Rated capacitance range	33 to 220 μ F	150 to 220 μ F
Capacitance tolerance	\pm 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	Rated voltage x1.15	
Endurance	85 °C, 1,000 h, rated voltage applied	
	Δ C/C	Within \pm 20 % of the initial value
	DF	\leq 1.5 times of the initial limit
	LC	Within the initial limit
Damp heat (Steady State)	60 °C, 90 to 95 %RH, 500 h, No-applied voltage	
	Δ C/C	Within +40 %, -20 % of the initial value
	DF	\leq 1.5 times of the initial limit
	LC	\leq 3 times of the initial limit

Marking and dimensions

R.Cap. code
 Polarity marking (+)
 R. Voltage code
 Lot. No.

L, W, H, S, W1

(unit : mm)

Size code	L +0.3/-0.1	W +0.3/-0.1	H \pm 0.1	S \pm 0.2	W1 \pm 0.1
B1G	3.5	2.8	1.1	0.8	2.2
B15G	3.5	2.8	1.4	0.8	2.2

R. Voltage (V.DC)	2.5	4.0	6.3	8.0	10.0	12.5
Code	e	g	j	k	A	B

R. Cap. (μ F)	33	47	100	150	220
Code	N7	S7	A8	E8	J8

Characteristics list

Series	Rated voltage (V.DC)	Rated temp. (°C)	Category voltage (V.DC)	Category temp. (°C)	Rated capacitance (μ F)	Case size (mm)			Size code	Specifications				Standard	
						L	W	H		Maximum allowable ripple current (mA rms) 100 kHz \times 1	ESR \times 2 (m Ω max.)	tan δ \times 3	LC \times 4 (μ A)	Part number	Min. Packaging Qty (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	30/300kHz	0.10	110.0	2R5TPG220MUG	2500
	4	85	3.2	105	220	3.5	2.8	1.4	B15G	1000	70	0.10	88.0	4TPG220M	2500
		85	5.0	105		100	3.5	2.8	1.1	B1G	1000	70	0.10	63.0	6TPG100M
	6.3	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	35/300kHz	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	35/300kHz	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	B1G	1000	70	0.10	47.0	10TPG47M	2500
	12.5	85	10.0	105	33	3.5	2.8	1.1	B1G	1000	70	0.10	41.3	12TPG33M	2500

\times 1: Ripple current (100 kHz/ +45 °C), \times 2: ESR (100 kHz/+20 °C) \times 3: tan δ (120 Hz/+20 °C) \times 4: After 5 minutes

◆Please refer to each page in this catalog 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.