Surface Mount Type

POSCAP

Series : **TPU**



Features

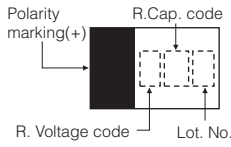
- Small size, Low profile (L2.0 × W 1.25 × H 0.9 mm)
- Face down terminal type
- RoHS compliance, Halogen free

Specifications

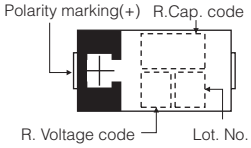
Size code	S09	B09
Category temperature range	–55 °C to +85 °C	
Rated voltage range	2.5 V.DC to 10 V.DC	6.3 V.DC
Category voltage range	2.5 V.DC to 10 V.DC	6.3 V.DC
Rated capacitance range	4.7 µF to 100 µF	150 µF
Capacitance tolerance	±20 % (120 Hz / + 20 °C)	
Leakage current	Please see the attached characteristics 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	Within the initial limit
Damp heat (Steady State)	+60 °C, 90 % to 95 %, 500 h, No-applied voltage	
	Capacitance change	Within +40 %, –20 % of the initial value
	tan δ	≦ 1.5 times of the initial limit
	DC leakage current	≦ 3 times of the initial limit

Marking

S09 Size



B09 Size



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

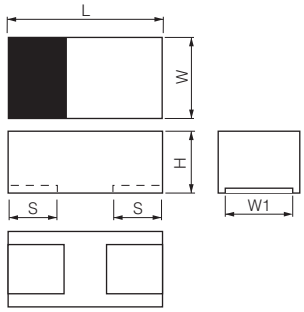
S09 Size

R. Cap. (µF)	4.7	10	22	47	68	100
Code	s	A	J	S	W	A

B09 Size

R. Cap. (µF)	150
Code	E8

Dimensions (not to scale)



Unit : mm

Size code	L±0.1 *1	W±0.1 *1	H±0.1	S±0.1 *1	W1±0.1
S09	2.0	1.25	0.9	0.5	0.9
B09	3.5	2.8	0.9	0.8	2.2

✻ Externals of figure are the reference. ✻1 ±0.2 : B09

Characteristics list

Series	Rated voltage (V.DC)	Rated temp. (°C)	Category voltage (V.DC)	Category temp. (°C)	Rated capacitance (µF)	Case size (mm) L	W	H	Size code	Specifications Ripple *1 current (mArr.m.s.)	ESR *2 (mΩ max.)	tan δ *3	LC *4 (µA)	Standard Part number	Min. Packaging Q'ty (pcs)
TPU	2.5	85	2.5	85	47	2.0	1.25	0.9	S09	510	150	0.10	23.5	2R5TPU47MSI	3000
		85	2.5	85	100	2.0	1.25	0.9		510	150	0.10	50.0	ETPU100MSI	3000
	4	85	4.0	85	68	2.0	1.25	0.9		510	150	0.10	54.4	4TPU68MSI	3000
	6.3	85	6.3	85	10	2.0	1.25	0.9		400	250	0.10	6.3	6TPU10MSI	3000
		85	6.3	85	22	2.0	1.25	0.9		510	150	0.10	27.7	6TPU22MSI	3000
		85	6.3	85	47	2.0	1.25	0.9		510	150	0.10	59.2	6TPU47MSI	3000
		85	6.3	85	150	3.5	2.8	0.9	B09	670	100	0.10	94.5	6TPU150MBI	3000
	10	85	10.0	85	4.7	2.0	1.25	0.9	S09	360	300	0.10	4.7	10TPU4R7MSI	3000

✻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.