

## 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
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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	
Polarity marking(+)	R.Cap. code	Polarity marking(+)	R.Cap. code
R. Voltage code	Lot. No.	R. Voltage code	Lot. No.
R. Voltage (V.DC)	2.5 4.0 6.3 10.0	R. Voltage (V.DC)	2.5 4.0 6.3 10.0
Code	e g j A	Code	e g j A
S09 Size			
R. Cap. (μF)	4.7 10 22 47 68 100	R. Cap. (μF)	4.7 10 22 47 68 100
Code	s A J S W A	Code	s A J S W A
B09 Size			
R. Cap. (μF)	150	R. Cap. (μF)	150
Code	E8	Code	E8

#### Dimensions (not to scale)

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

Unit : mm

\*1 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)			Size code	Specifications				Standard		Floor life	
						L	W	H		Ripple*1 current (mAr.m.s.)	ESR*2 (mΩ max.)	tan δ*3	LC*4 (μA)	Part number	Min. Packaging Qty (pcs)	Reflow Temp ≤260°C	Reflow Temp ≤250°C
TPU	2.5	85	2.5	85	47	2.0	1.25	0.9	S09	510	150	0.10	23.5	2R5TPU47MSI	3000	-	3
		85	2.5	85	100	2.0	1.25	0.9		510	150	0.10	50.0	ETPU100MSI	3000		
	85	4.0	85	68	2.0	1.25	0.9	510		150	0.10	54.4	4TPU68MSI	3000			
	85	6.3	85	10	2.0	1.25	0.9	400		250	0.10	6.3	6TPU10MSI	3000			
	6.3	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	3
		85	6.3	85	150	3.5	2.8	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 catalog for "Reflow conditions" and "Taping specifications".