

## Surface Mount Type

# POSCAP



Series : **TPSF**

### Features

- Super low ESR (6 mΩ max.)
- Super low ESL (0.7 nH)
- Face down terminal type
- RoHS compliance, Halogen free

### Specifications

Size code	B2S	
Category temperature range	-55 °C to +105 °C	
Rated voltage range	2.0 V.DC to 2.5 V.DC	
Category voltage range	2.0 V.DC to 2.5 V.DC	
Rated capacitance range	270 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	+105 °C, 1000 h rated voltage applied	
	Capacitance change	Within ±20 % of the initial value
	tan δ	≤ 1.5 times of 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

Polarity marking(+) R. Voltage code

R.Cap. code Lot. No.

R. Voltage (V.DC)	2.0	2.5
Code	d	e

R. Cap. (μF)	270
Code	L8

### Dimensions (not to scale)

Unit : mm

Size code	L±0.2	W±0.2	H±0.1	S±0.3	W1±0.1
B2S	3.5	2.8	1.9	0.8	2.2

\* Externals of figure are the reference.

### 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	
						L	W	H		Ripple*1 (mAr.m.s.)	ESR*2 (mΩ max.)	tan δ*3	LC*4 (μA)	Part number	Min. Packaging Qty (pcs)
TPSF	2	105	2.0	105	270	3.5	2.8	1.9	B2S	3200	6/500 kHz	0.08	108	2TPSF270M6E	2000
		105	2.0	105		3.5	2.8	1.9		2400	9/300 kHz	0.08	108	2TPSF270M9G	2000
	2.5	105	2.5	105	270	3.5	2.8	1.9		3200	6/500 kHz	0.08	135	ETPSF270M6E	2000

\*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".