# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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## Surface Mount Type

POSCAP

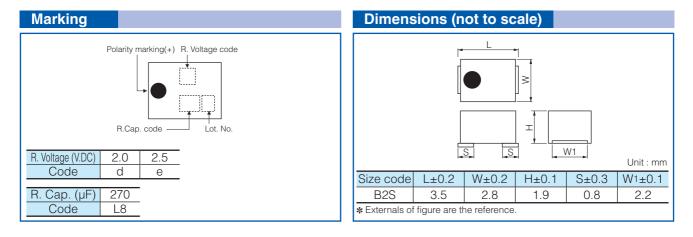


Series : TPSF

### Features

- Super low ESR (6 m $\Omega$  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								
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Rated capacitance range	270 µF								
Capacitance tolerance	±20 % (120 Hz / + 20 °C)								
Leakage current	Please see the attached characteristics list								
Dissipation factor (tan $\delta$ )	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 $\delta$	$\leq$ 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 $\delta$	≤ 1.5 times of the initial limit							
	DC leakage current	≤ 3 times of the initial limit							



#### **Characteristics list**

			Category	Category temp. (°C)	Rated capacitance (µF)	Case size (mm)			Specifications				Standard		
			voltage (V.DC)			L	W	Н		Ripple *1 current (mAr.m.s.)	ESR *2 (mΩ max.)	tan $\delta^{*^3}$	LC *4 (µA)	Part number	Min. Packaging Q'ty (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 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.