

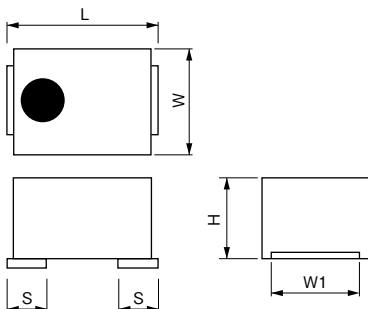
TPSF series achieved small size, high capacitance and low ESR.



Specifications

Items	Condition		Specifications
Rated voltage (V)	—		2.0
Surge voltage (V)	—		2.3
Category temperature range (°C)	—		−55 to +105
Capacitance tolerance (%)	120Hz/20°C		M : ±20
Rated capacitance range (μF)	120Hz/20°C		270
Dissipation Factor (DF)	120Hz/20°C		Please see the attached characteristics list
Leakage current	Rated voltage applied, after 5 minutes		Please see the attached characteristics list
Equivalent series resistance (ESR)	100kHz/20°C		Please see the attached characteristics list
Characteristics of impedance ratio at high temp. and low temp.	100kHz/+20°C	−55°C	Z/Z _{20°C}
		+105°C	Z/Z _{20°C}
Endurance	105°C, 1,000h, rated voltage applied ※Rated temp, 85°C Products: 85°C, 1,000h, rated voltage applied	ΔC/C	Within±20% of the initial value
		DF	≤ 1.5 times of the initial limit
		LC	Within the initial limit
		ΔC/C	Within+40%, −20% of the initial value
Damp heat (Steady State)	60°C, 90 to 95%RH, 500h, No-applied voltage	DF	≤ 1.5 times of the initial limit
		LC	≤ 3 times of the initial limit
		ΔC/C	Within±5% of the initial value
Surge	105°C, 1,000 cycles, 1kΩ discharge resistance, surge voltage applied ※Rated temp, 85°C Products:85°C	DF	Within the initial limit
		LC	≤ 3 times of the initial limit
		ΔC/C	Within±5% of the initial value

Dimensions



(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

Size list

RV : Rated voltage

μF	RV
270	2.0
	B2S

TPSF series characteristics list

Size code	Part number	Rated voltage (V)	Rated temperature (°C)	Rated capacitance (μF)	Category voltage (V)	Category temperature (°C)	DF (% max)	LC (μA) max/5min.	ESR (mΩmax) 100kHz/20°C	ESL (nHmax) *Typical value	Maximum allowable ripple current (mA rms) 100kHz*1	MSL	
B2S	2TPSF270M9G	2.0	105	270	2.0	105	8.0	108	9/300kHz	0.7	2400	3	3
	2TPSF270M6E	2.0	105	270	2.0	105	8.0	108	6/500kHz	0.7	3200	5	5

*1 100k to 500kHz, 45°C