## **Surface Mount Type** POSCAP

Series : TPE

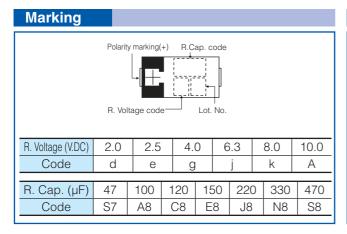
Size: B

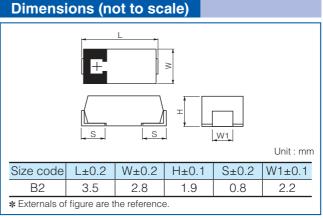


## **Features**

- Small size (L 3.5×W 2.8×H 1.9 mm)
- Low ESR (15 m $\Omega$ )
- RoHS compliance, Halogen free

Specifications								
Size code	B2							
Category temperature range	−55 °C to +105 °C							
Rated voltage range	2.0 V.DC to 10 V.DC							
Category voltage range	1.8 V.DC to 8.0 V.DC							
Rated capacitance range	47 μF to 470 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  * Rated temp, +85 °C Products: +85 °C, 1000 h, rated voltage applied  Capacitance change   Within ±20 % of the initial value							
	$ an \delta$	≤ 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 +50 %, -20 % of the initial value (2R5TPE220MAZB (MAPB, MAFB), 2R5TPE330MAZB, 2TPE330MAFB (MADGB), 2TPE470MAJGB (MAFB), 2TPE330MFB) Within +40 %, -20 % of the initial value (Except for above model)						
	tan $\delta$	≤ 1.5 times of the initial limit						
	DC leakage current	≤ 3 times of the initial limit						







## Panasonic Conductive Polymer Tantalum Solid Capacitors

Characteristics list															
	Datad	D (	Catanani	0-4	D. I	Case size (mm)				Specifications				Standard	
Series	Rated voltage (V.DC)	Rated temp.	Category voltage (V.DC)	temp.	Rated capacitance (µF)	L	W	Н	Size code	Ripple *1 current (mAr.m.s.)	ESR *2 (mΩ max.)	tan $\delta^{*3}$	LC*4 (µA)	Part number	Min. Packaging Q'ty (pcs)
	2	105	2.0	105	330	3.5	2.8	1.9	B2	2000	15	0.08	132.0	2TPE330MFB	2000
		85	1.8	105		3.5	2.8	1.9		2000	15	0.08	132.0	2TPE330MAFB	2000
		85	1.8	105		3.5	2.8	1.9		2000	13/300 kHz	0.10	132.0	2TPE330MADGB	2000
		85	1.8	105	470	3.5	2.8	1.9		2300	15	0.10	188.0	2TPE470MAFB	2000
		85	1.8	105		3.5	2.8	1.9		2300	11/300 kHz	0.08	188.0	2TPE470MAJGB	2000
	2.5	85	2.0	105	- 220	3.5	2.8	1.9		2000	15	0.08	110.0	2R5TPE220MAFB	2000
		105	2.5	105		3.5	2.8	1.9		1800	15/300 kHz	0.08	110.0	2R5TPE220MFGB	2000
		105	2.5	105		3.5	2.8	1.9		1700	21	0.08	55.0	2R5TPE220MLB	2000
		85	2.0	105		3.5	2.8	1.9		1600	25	0.08	55.0	2R5TPE220MAPB	2000
		105	2.5	105		3.5	2.8	1.9		1400	35	0.08	55.0	2R5TPE220MZB	2000
		85	2.0	105		3.5	2.8	1.9		1400	35	0.08	55.0	2R5TPE220MAZB	2000
		85	2.0	105	- 330 100	3.5	2.8	1.9		1400	35	0.08	82.5	2R5TPE330MAZB	2000
TPE		<b>y</b> 85	2.5	105		3.5	2.8	1.9		3200	9/300 kHz	0.08	165.0	ETPE330MA9GB	2000
	4	105	4.0	105		3.5	2.8	1.9		1400	35	0.08	40.0	4TPE100MZB	2000
		85	3.2	105	150	3.5	2.8	1.9		1400	35	0.08	60.0	4TPE150MAZB	2000
		85	3.2	105	220	3.5	2.8	1.9		1400	35	0.08	88.0	4TPE220MAZB	2000
	6.3	105	6.3	105	100	3.5	2.8	1.9		1600	25	0.08	63.0	6TPE100MPB	2000
		85	5.0	105		3.5	2.8	1.9		1400	35	0.08	63.0	6TPE100MAZB	2000
		<b>7</b> 105	6.3	105		3.5	2.8	1.9		1400	35	0.08	63.0	6TPE100MZB	2000
		85	5.0	105	120	3.5	2.8	1.9		1400	35	0.08	75.6	6TPE120MAZB	2000
		85	5.0	105	150	3.5	2.8	1.9		1600	25	0.08	94.5	6TPE150MAPB	2000
		85	5.0	105		3.5	2.8	1.9		1400	35	0.08	94.5	6TPE150MAZB	2000
		85	5.0	105	220	3.5	2.8	1.9		1400	35	0.10	138.6	6TPE220MAZB	2000
	8	85	6.3	105	100	3.5	2.8	1.9	1	1400	35	0.08	80.0	8TPE100MAZB	2000
	10	85	8.0	105	47	3.5	2.8	1.9		1400	35	0.08	47.0	10TPE47MAZB	2000

<sup>\*1</sup> Ripple current (100 kHz/ +45 °C ), \*2 ESR (100 kHz/+20 °C) \*3  $\tan \delta$  (120 Hz/+20 °C) \*4 After 5 minutes

<sup>◆</sup> Please refer to each page in this catarog for "Reflow conditions" and "Taping specifications".