

Surface Mount Type

POSCAP

Series : TA



Features

- Guaranteed at 85 °C 85 %RH
- RoHS compliance, Halogen free

Specifications

Size code	B2	D2E	D3L
Category temperature range	-55 °C to +105 °C		
Rated voltage range	4 V.DC to 10 V.DC	2.5 V.DC to 10 V.DC	
Category voltage range	4 V.DC to 10 V.DC	2.5 V.DC to 10 V.DC	
Rated capacitance range	47μF to 100 μF	68 μF to 470 μF	150 μF to 680 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, 2000 h, (B2 size : 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)	+85 °C, 85 % to 90 %, 500 h, rated voltage applied		
	Capacitance change	Within +50 %, -20 % of the initial value (2R5TAE470M(F), 2R5TAE330M(F, I), 2R5TAE220M(F, 9))	
	tan δ	Within +40 %, -20 % of the initial value (Except for above model)	
	DC leakage current	Within the initial limit	

Marking

D2E, D3L Size	B2 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)	R. Voltage (V.DC)
Code	Code
2.5 4.0 6.3 10.0	2.5 4.0 6.3 10.0
e g j A	e g j A
R. Cap. (µF)	R. Cap. (µF)
Code	Code
47 68 100	47 68 100
S7 W7 A8	S7 W7 A8

Dimensions (not to scale)

Unit : mm					
Size Code	L±0.3*1	W±0.2	H±0.2*2	S±0.2	W1±0.1
B2	3.5	2.8	1.9	0.8	2.2
D2E	7.3	4.3	1.8	1.3	2.4
D3L	7.3	4.3	2.8	1.3	2.4

* 1 ±0.2 : B2
* 2 ±0.1 : B2, D2E

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)
TA	2.5	105	2.5	105	220	7.3	4.3	1.8	D2E	3900	9	0.10	110.0	2R5TAE220M9	3000
						7.3	4.3	1.8		3100	15	0.10	55.0	2R5TAE220MF	3000
						7.3	4.3	1.8		2400	25	0.10	55.0	2R5TAE220M	3000
		105	2.5	105	330	7.3	4.3	1.8		3100	15	0.10	82.5	2R5TAE330MF	3000
						7.3	4.3	1.8		2800	18	0.10	82.5	2R5TAE330MI	3000
						7.3	4.3	1.8		2400	25	0.10	82.5	2R5TAE330M	3000
		105	2.5	105	470	7.3	4.3	1.8	D3L	3100	15	0.10	117.5	2R5TAE470MF	3000
						7.3	4.3	1.8		2400	25	0.10	117.5	2R5TAE470M	3000
						7.3	4.3	2.8		3100	15	0.10	170.0	2R5TAE680MFL	2500
		105	2.5	105	680	7.3	4.3	2.8		2400	25	0.10	170.0	2R5TAE680ML	2500
						3.8	2.8	1.9	B2	1100	70	0.08	40.0	4TAB100M	2000
						7.3	4.3	1.8		2800	18	0.10	88.0	4TAE220MI	3000
	4	105	4.0	105	100	7.3	4.3	1.8	D2E	2400	25	0.10	88.0	4TAE220M	3000
						7.3	4.3	2.8		2800	18	0.10	188.0	4TAE470MIL	2500
						7.3	4.3	2.8		2400	25	0.10	188.0	4TAE470ML	2500
		105	4.0	105	220	7.3	4.3	1.8	D3L	1100	70	0.08	29.6	6TAB47M	2000
						7.3	4.3	1.8		1100	70	0.08	42.8	6TAB68M	2000
						7.3	4.3	1.8		2400	25	0.10	94.5	6TAE150M	3000
		105	6.3	105	47	3.5	2.8	1.9	B2	2800	18	0.10	138.6	6TAE220MI	3000
						7.3	4.3	1.8		2400	25	0.10	138.6	6TAE220M	3000
						7.3	4.3	2.8		2400	25	0.10	207.9	6TAE330ML	2500
		105	6.3	105	150	7.3	4.3	1.8	D2E	1100	70	0.08	47.0	10TAB47M	2000
						7.3	4.3	1.8		2400	25	0.10	68.0	10TAE68M	3000
						7.3	4.3	2.8		2400	25	0.10	150.0	10TAE150ML	2500
	10	105	10.0	105	220	7.3	4.3	2.8	D3L	2400	25	0.10	220.0	10TAE220ML	2500

*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".