Surface Mount Type

POSCAP

Series : TA

◆ This product is not intended for use in any driving application or any other critical functions that affect passenger safety. (e.g. Powertrain, ABS, Engine ECU, Airbag, etc.)
If the intended use of TA/TV series products is for use in other automotive related applications, please contact our sales team. All requests are subject to approval.

Features

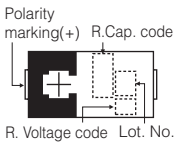
● Guaranteed at 85 °C 85 %RH ● RoHS compliance, Halogen free

Specifications

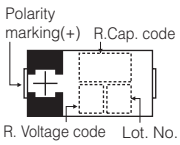
Size code	B2	D2E	D3L
Category temperature range	−55 °C to +105 °C		
Rated voltage range	4 V.DC to 10 V.DC	2.5 V.DC to 10 V.DC	
Category voltage range	4 V.DC to 10 V.DC	2.5 V.DC to 10 V.DC	
Rated capacitance range	47µF to 100 µF	68 µF to 470 µF	150 µF to 680 µF
Capacitance tolerance	±20 % (120 Hz / + 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))		
	Within +40 %, −20 % of the initial value (Except for above model)		
	tan δ: ≦ 1.5 times of the initial limit		
	DC leakage current: Within the initial limit		

Marking

D2E, D3L Size



B2 Size

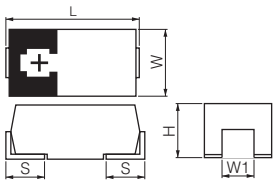


R. Voltage (V.DC)	2.5	4.0	6.3	10.0
Code	e	g	j	A

B2 Size

R. Cap. (µF)	47	68	100
Code	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

✻ Externals of figure are the reference.
✻ 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) L	W	H	Size code	Specifications Ripple*1 current (mArr.m.s.)	ESR*2 (mΩ max.)	tan δ*3	LC*4 (µA)	Standard Part number	Min. Packaging Q'ty (pcs)	Floor life Reflow Temp ≦ 260°C	Reflow Temp ≦ 250°C
TA	2.5	105	2.5	105	220	7.3	4.3	1.8	D2E	3900	9	0.10	110.0	2R5TAE220M9	3000	3	3
		105	2.5	105		7.3	4.3	1.8		3100	15	0.10	55.0	2R5TAE220MF	3000		
		105	2.5	105		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		
		105	2.5	105		7.3	4.3	1.8		2800	18	0.10	82.5	2R5TAE330MI	3000		
		105	2.5	105		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		3100	15	0.10	117.5	2R5TAE470MF	3000		
		105	2.5	105		7.3	4.3	1.8		2400	25	0.10	117.5	2R5TAE470M	3000		
		105	2.5	105	680	7.3	4.3	2.8	D3L	3100	15	0.10	170.0	2R5TAE680MFL	2500		
		105	2.5	105		7.3	4.3	2.8		2400	25	0.10	170.0	2R5TAE680ML	2500		
	4	105	4.0	105	100	3.8	2.8	1.9	B2	1100	70	0.08	40.0	4TAB100M	2000		
		105	4.0	105	220	7.3	4.3	1.8	D2E	2800	18	0.10	88.0	4TAE220MI	3000		
		105	4.0	105		7.3	4.3	1.8		2400	25	0.10	88.0	4TAE220M	3000		
		105	4.0	105	470	7.3	4.3	2.8	D3L	2800	18	0.10	188.0	4TAE470MIL	2500		
		105	4.0	105		7.3	4.3	2.8		2400	25	0.10	188.0	4TAE470ML	2500		
	6.3	105	6.3	105	47	3.5	2.8	1.9	B2	1100	70	0.08	29.6	6TAB47M	2000		
		105	6.3	105	68	3.5	2.8	1.9		1100	70	0.08	42.8	6TAB68M	2000		
		105	6.3	105	150	7.3	4.3	1.8	D2E	2400	25	0.10	94.5	6TAE150M	3000		
		105	6.3	105	220	7.3	4.3	1.8		2800	18	0.10	138.6	6TAE220MI	3000		
		105	6.3	105		7.3	4.3	1.8		2400	25	0.10	138.6	6TAE220M	3000		
		105	6.3	105	330	7.3	4.3	2.8	D3L	2400	25	0.10	207.9	6TAE330ML	2500		
	10	105	10.0	105	47	3.5	2.8	1.9	B2	1100	70	0.08	47.0	10TAB47M	2000		
		105	10.0	105	68	7.3	4.3	1.8	D2E	2400	25	0.10	68.0	10TAE68M	3000		
		105	10.0	105	150	7.3	4.3	2.8	D3L	2400	25	0.10	150.0	10TAE150ML	2500		
		105	10.0	105	220	7.3	4.3	2.8		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 catarog for “Reflow conditions” and “Taping specifications”.

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