

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))	
	tan δ	≤ 1.5 times of the initial limit	
	DC leakage current	Within the initial limit	

Marking

D2E, D3L Size

B2 Size

R. Voltage (VDC)	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 (VDC)	Rated temp. (°C)	Category voltage (VDC)	Category temp. (°C)	Rated capacitance (µF)	Case size (mm)			Size code	Specifications				Standard		Floor life											
						L	W	H		Ripple*1 (mA.r.m.s.)	ESR*2 (mΩ max.)	tan δ*3	LC*4 (µA)	Part number	Min. Packaging Qty (pcs)	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										
										3100	15	0.10	55.0	2R5TAE220MF	3000												
										2400	25	0.10	55.0	2R5TAE220M	3000												
						3100	15	0.10		82.5	2R5TAE330MF	3000															
						2800	18	0.10		82.5	2R5TAE330MI	3000															
						2400	25	0.10		82.5	2R5TAE330M	3000															
					470	3100	15	0.10	117.5	2R5TAE470MF	3000																
												2400	25	0.10	117.5			2R5TAE470M	3000								
																				3100	15	0.10	170.0	2R5TAE680MFL	2500		
						2400	25	0.10	170.0	2R5TAE680ML	2500																
												3100	15	0.10	170.0			2R5TAE680MFL	2500								
																				2400	25	0.10	170.0	2R5TAE680ML	2500		
	680	7.3	4.3	2.8	D3L	2400	25	0.10	170.0	2R5TAE680ML	2500																
												105	2.5	105	100			3.8	2.8							1.9	B2
																				220	7.3	4.3	1.8	D2E	2800		
		2400	25	0.10	88.0	4TAE220M	3000																				
								2800	18	0.10	188.0	4TAE470MIL	2500														
														2400	25			0.10	188.0	4TAE470ML	2500						
	105	6.3	105	47	3.5	2.8	1.9															B2	1100	70	0.08	29.6	6TAB47M
								68	7.3	4.3	1.8	D2E	1100										70	0.08	42.8	6TAB68M	2000
													150	7.3	4.3			1.8	2400	25	0.10		94.5	6TAE150M	3000		
	220	7.3	4.3	1.8	2800	18	0.10															138.6				6TAE220MI	3000
								2400	25	0.10	138.6	6TAE220M															
													2400	25	0.10			207.9	6TAE330ML	2500							
105	10.0	105	47	3.5	2.8	1.9	B2									1100	70				0.08	47.0	10TAB47M	2000			
								68	7.3	4.3	1.8	D2E				2400	25				0.10	68.0	10TAE68M	3000			
													150	7.3	4.3	2.8	D3L	2400	25	0.10	150.0	10TAE150ML	2500				
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 catalog for "Reflow conditions" and "Taping specifications".

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- When you use the inventory of our products for which it is unclear whether those products are compliant with the RoHS Directive/REACH Regulation, please select "Sales Inquiry" in the website inquiry form and contact us.

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