

## 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.																		
<table border="1"> <tr> <th>R. Voltage (V.DC)</th> <td>2.5</td> <td>4.0</td> <td>6.3</td> <td>10.0</td> </tr> <tr> <th>Code</th> <td>e</td> <td>g</td> <td>j</td> <td>A</td> </tr> </table>		R. Voltage (V.DC)	2.5	4.0	6.3	10.0	Code	e	g	j	A	<table border="1"> <tr> <th>R. Cap. (µF)</th> <td>47</td> <td>68</td> <td>100</td> </tr> <tr> <th>Code</th> <td>S7</td> <td>W7</td> <td>A8</td> </tr> </table>		R. Cap. (µF)	47	68	100	Code	S7	W7	A8
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### 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

\* External 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)			Size code	Specifications				Standard									
						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)								
TA	2.5	105	2.5	105	220	7.3	4.3	1.8	D2E	3900	9	0.10	110.0	2R5TAE220M9	3000								
										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																
		D3L	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															
			4	105	4.0	105	100	3.8	2.8	1.9	B2	1100	70	0.08	40.0	4TAB100M	2000						
												2800	18	0.10	88.0	4TAE220MI	3000						
	2400	25										0.10	88.0	4TAE220M	3000								
	D3L	105		4.0	105	470	7.3	4.3	2.8	D3L	2800	18	0.10	188.0	4TAE470MIL	2500							
											2400	25	0.10	188.0	4TAE470ML	2500							
											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								
										1100	70	0.08	42.8	6TAB68M	2000								
										2400	25	0.10	94.5	6TAE150M	3000								
			D2E	105	6.3	105	150	7.3	4.3	1.8	D2E	2800	18	0.10	138.6	6TAE220MI	3000						
												2400	25	0.10	138.6	6TAE220M	3000						
												2400	25	0.10	138.6	6TAE220M	3000						
		10	105	6.3	105	330	7.3	4.3	2.8	D3L	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
105																			10.0	105	68	7.3	4.3
			2400	25	0.10	150.0	10TAE150ML	2500															
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".