



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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	≤ 1.5 times of the initial limit	
	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
R. Voltage (V.DC)	2.5	4.0	6.3	10.0																	
Code	e	g	j	A																	
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

* 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								
			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									
	2800	18		0.10	188.0	4TAE470MIL	2500									
	2400	25		0.10	188.0	4TAE470ML	2500									
	1100	70		0.08	29.6	6TAB47M	2000									
	4	6.3	105	6.3	105	47	3.5	2.8	1.9	B2	1100	70	0.08	42.8	6TAB68M	2000
											2400	25	0.10	94.5	6TAE150M	3000
											2800	18	0.10	138.6	6TAE220MI	3000
			2400	25	0.10	138.6	6TAE220M	3000								
			2400	25	0.10	207.9	6TAE330ML	2500								
			1100	70	0.08	47.0	10TAB47M	2000								
		D2E	2400	25	0.10	68.0	10TAE68M	3000								
			2400	25	0.10	150.0	10TAE150ML	2500								
2400			25	0.10	220.0	10TAE220ML	2500									
10			105	10.0	105	47	3.5	2.8	1.9	B2	1100	70	0.08	47.0	10TAB47M	2000
											2400	25	0.10	68.0	10TAE68M	3000
											2400	25	0.10	150.0	10TAE150ML	2500
	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".