Panasonic Conductive Polymer Tantalum Solid Capacitors

Surface Mount Type

POSCAP



Series: TA

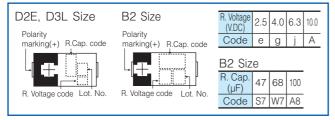
◆ This product is not intended for use in any driving application or any other critical functions that affect passenger safety. (e.g. Powertrain, ABS, Engine ECU, Airbag, etc.) If the intended use of TA/TV series products is for use in other automotive related applications, please contact our sales team.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

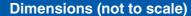
Features

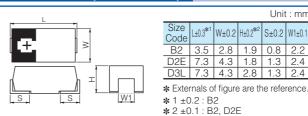
Guaranteed at 85 °C 85 %RH
RoHS compliance, Halogen free

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 µ	ιF	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								
	+105 °C, 2000 h, (B2 size: 1000 h) rated voltage applied								
Endurance	Capacitance change								
Litatiance	tan δ	= 110 til1100 01 ti10 lilitiai lililit							
	DC leakage current Within the initial limit								
	_+85 °C, 85 % to 90 %, 500 h, rated voltage applied								
Damp heat	Capacitance change	Within +50 %, -20 % of the initial value (2R5TAE470M(F), 2R5TAE330M(F, I), 2R5TAE220M(F, 9))							
(Steady State)	Capacitarice criarige	Within +40 %, -20 % of the initial value (Except for above model)							
(Oleady State)	tan δ	≤ 1.5 times of the initial limit							
	DC leakage current	Within the	initial limit						

Marking







Characteristics list

	Rated voltage (V.DC)	Rated temp. (°C)	Category voltage (V.DC)	Category temp. (°C)	Rated capacitance (µF)	Case size (mm)			Specifications				Standard	Floor life			
Series						L	W	Н	Size code	Ripple*1 current (mAr.m.s.)	ESR*2 (mΩ max.)	tan δ^{*3}	LC*4 (µA)	Part number	Min. Packaging Q'ty (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		
		105	2.5	105		7.3	4.3	1.8		3100	15	0.10	55.0	2R5TAE220MF	3000	1	3
		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	7 '	
		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	470	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	3	
		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	[
	'0	105	10.0	105	150 7.3 220 7.3		4.3	2.8	D3L	2400	25	0.10	150.0	10TAE150ML	2500 2500	[
		105	10.0	105		7.3	4.3	2.8		2400	25	0.10	220.0	10TAE220ML			

- *1 Ripple current (100 kHz/ +45 °C), *2 ESR (100 kHz/+20 °C) *3 $\tan \delta$ (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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