

## Surface Mount Type

# POSCAP



Series : TV

- ◆ 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
- Guaranteed at 125 °C
- RoHS compliance, Halogen free

### Specifications

Size code	D2E	D3L	
Category temperature range	-55 °C to +125 °C		
Rated voltage range	6.3 V.DC to 10 V.DC	10 V.DC	
Category voltage range	4.0 V.DC to 6.3 V.DC	6.3 V.DC	
Rated capacitance range	68 µF to 150 µF	150 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	+125 °C, 1000 h, category voltage applied (+105 °C 2000 h, rated voltage applied)		
	temp.	125 °C	105 °C
	Capacitance change	Within ±20 % of the initial value	Within ±20 % of the initial value
Damp heat (Steady State)	tan δ	≤ 2 times of the initial limit	≤ 1.5 times of the initial limit
	DC leakage current	≤ 2 times of the initial limit	Within the initial limit
	+85 °C, 85 % to 90 %, 500 h, rated voltage applied		
	Capacitance change	Within +40 %, -20 % of the initial value	
	tan δ	≤ 1.5 times of the initial limit	
DC leakage current	Within the initial limit		

### Marking

R. Voltage (V.DC)	6.3	10.0
Code	j	A

### Dimensions (not to scale)

Size code	L±0.3	W±0.2*1	H±0.2	S±0.2	W1±0.1
D2E	7.3	4.3	1.8	1.3	2.4
D3L	7.3	4.3	2.8	1.3	2.4

Unit : mm  
\* Externals of figure are the reference. \*1 ±0.1 : 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		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
TV	6.3	105	4.0	125	150	7.3	4.3	1.8	D2E	2400	25	0.10	94.5	6TVE150M	3000	5	3
										2400	25	0.10	68.0	10TVE68M	3000		
	10	105	6.3	125	68	7.3	4.3	1.8	D3L	2400	25	0.10	150.0	10TVE150ML	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".