Surface Mount Type

POSCAP



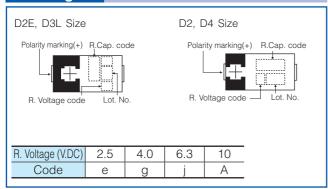
Series: TH

Features

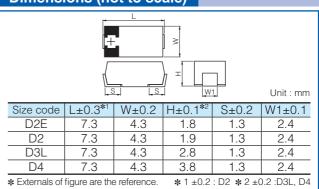
- Guaranteed at 125 °C, 1000h
- RoHS compliance, Halogen free

Specifications											
Size code	D2E	D2	D3L	D4							
Category temperature range	−55 °C to +125 °C										
Rated voltage range	2.5 V.DC to 6.3 V.DC		4 V.DC to 6.3 V.DC	6.3 V.DC to 10 V.DC							
Category voltage range	1.6 V.DC to 4.0 V.DC	1.6 V.DC to 6.3 V.DC		4.0 V.DC to 6.3 V.DC							
Rated capacitance range	150 μF to 330 μF	68 μF to 220 μF		220 μF to 470 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										
	+125 °C 1000h, category voltage appled										
Endurance	Capacitance change Within ±20 % of the initial value										
Lildurance											
	DC leakage current ≤ 2 times of the initial limit										
	+60 °C, 90 % to 95 %, 500 h, No-applied voltage										
Damp heat	Capacitance change Within +40 %, -20 % of the initial value										
(Steady State)	tan δ	≤ 1.5 times of the initial limit									
	DC leakage current	≤ 3 times of the initial lin	nit								

Marking



Dimensions (not to scale)



Characteristics list

Series	Rated voltage (V.DC)	temp. vo	Category	Category temp.	Rated capacitance (µF)	Case size (mm)			Specifications			Standard		Floor life			
			voltage (V.DC)			L	W	Н	Size	Ripple *1 current (mAr.m.s.)	$\begin{array}{c} ESR^{ *2} \\ (m\Omega max.) \end{array}$	tan δ^{*3}	LC*4 (µA)	Part number	Min. Packaging Q'ty (pcs)	Reflow Temp ≤ 260°C	Reflow Temp ≤ 250°C
ТНВ	4.0	105	2.5	125	330	7.3	4.3	2.8	D3L	2000	40	0.10	132.0	4THB330ML	2500		5
	6.3	105	4.0	125	220	7.3	7.3 4.3	2.8		2000	40	0.10	138.6	6THB220ML	2500		
		105	4.0	125	330 470 220 330	7.3	4.3	3.8	- D4	3000	40	0.10	207.9	6THB330M	2000		
		105	4.0	125		7.3	4.3	3.8		3000	35	0.10	296.1	6THB470M	2000		
	10	105	6.3	125		7.3	4.3	3.8		3000	40	0.10	220.0	10THB220M	2000		
		105	6.3	125		7.3	4.3	3.8		3000	35	0.10	330.0	10THB330M	2000		
THC	2.5	105	1.6	125	220	7.3	4.3	1.9	D2 [1700	45	0.10	55.0	2R5THC220M	3000		
	6.3	105	4.0	125	150	7.3	4.3	1.9		1900	40	0.10	94.5	6THC150M	3000		
	10	105	6.3	125	68	7.3	4.3	1.9		1700	45	0.10	68.0	10THC68M	3000	_	
THE	2.5	105	1.6	125	330	7.3	4.3	1.8	D2E	3100	15	0.10	82.5	2R5THE330MF	3000		
		105	1.6	125		7.3	4.3	1.8		2800	18	0.10	82.5	2R5THE330MI	3000		
		105	1.6	125		7.3	4.3	1.8		2400	25	0.10	82.5	2R5THE330M	3000		
	4.0	105	2.5	125	220	7.3	4.3	1.8		3100	15	0.10	88.0	4THE220MF	3000		
		105	2.5	125		7.3	4.3	1.8		2800	18	0.10	88.0	4THE220MI	3000		
		105	2.5	125		7.3	4.3	1.8		2400	25	0.10	88.0	4THE220M	3000		
	6.3	105	4.0	125	150	7.3	4.3	1.8		2800	18	0.10	94.5	6THE150MI	3000		
		105	4.0	125		7.3	4.3	1.8		2400	25	0.10	94.5	6THE150M	3000	1	

- *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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