



Specifications

Items	Specifications			
	D2E	D2	D3L	D4
Size code	D2E	D2	D3L	D4
Category temperature range	-55 to +125 °C			
Rated voltage range	2.5 to 10 V.DC			
Rated capacitance range	150 to 330 μF	68 to 220 μF	220 to 330 μF	220 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	Rated voltage x1.15			
Endurance	125°C 1,000h, category voltage applied			
	ΔC/C	Within±20 % of the initial value		
	DF	≤ 2 times of the initial limit		
	LC	≤ 2 times of the initial limit		
Damp heat (Steady State)	60°C, 90 to 95% RH 500h, No-applied voltage			
	ΔC/C	Within+40 %, -20 % of the initial value		
	DF	≤ 1.5 times of the initial limit		
	LC	≤3 times of the initial limit		

Marking and dimensions

D2E, D3L size

D2, D4 size

(unit : mm)

Size code	L ±0.3※1	W ±0.2	H ±0.1※2	S ±0.2	W1 ±0.1
D2E	7.3	4.3	1.8	1.3	2.4
D2	7.3	4.3	1.9	1.3	2.4
D3L	7.3	4.3	2.8	1.3	2.4
D4	7.3	4.3	3.8	1.3	2.4

※1 ±0.2:D2 ※2 ±0.2:D3L,D4

R. Voltage (V.DC)	2.5	4.0	6.3	10
Code	e	g	j	A

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		Maximum allowable ripple current (mA rms) 100 kHz ※1	ESR ※2 (mΩ max.)	tan δ ※3	LC ※4 (μA)	Part number	Min. Packaging Qty (pcs)
THB	4.0	105	2.5	125	330	7.3	4.3	2.8	D3L	2000	40	0.10	132.0	4THB330ML	2500
										2000	40	0.10	138.6	6THB220ML	2500
	6.3	105	4.0	125	330	7.3	4.3	3.8	D4	3000	40	0.10	207.9	6THB330M	2000
										3000	35	0.15	296.1	6THB470M	2000
	10	105	6.3	125	220	7.3	4.3	3.8	D4	3000	40	0.10	220.0	10THB220M	2000
										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
										1900	40	0.10	94.5	6THC150M	3000
	10	105	6.3	125	68	7.3	4.3	1.9	D2	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
										2800	18	0.10	82.5	2R5THE330MI	3000
										2400	25	0.10	82.5	2R5THE330M	3000
	4.0	105	2.5	125	220	7.3	4.3	1.8	D2E	3100	15	0.10	88.0	4THE220MF	3000
										2800	18	0.10	88.0	4THE 220MI	3000
										2400	25	0.10	88.0	4THE220M	3000
	6.3	105	4.0	125	150	7.3	4.3	1.8	D2E	2800	18	0.10	94.5	6THE150MI	3000
										2400	25	0.10	94.5	6THE150M	3000

※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".