

Specifications

Items	Condition		Specifications	
Rated voltage (V)	—		6.3	10
Surge voltage (V)	—		7.2	12
Category temperature range (°C)	—		−55 to +125	
Capacitance tolerance (%)	120Hz/20°C		M : ±20	
Rated capacitance range (μF)	120Hz/20°C		68 to 150	
Dissipation Factor (DF)	120Hz/20°C		Please see the attached characteristics list	
Leakage current	Rated voltage applied, after 5 minutes		Please see the attached characteristics list	
Equivalent series resistance (ESR)	100kHz/20°C		Please see the attached characteristics list	
Characteristics of impedance ratio at high temp. and low temp.	100kHz/+20°C	−55°C	Z/Z _{20°C}	0.6 to 2.0
		+105°C	Z/Z _{20°C}	0.6 to 2.0
		temp	125	105
		ΔC/C	Within±20% of the initial value	Within±20% of the initial value
Endurance	125°C, 1,000h, category voltage applied (105°C 2,000h, rated voltage applied)	DF	≤ 2 times of the initial limit	≤ 1.5 times of the initial limit
		LC	≤ 2 times of the initial limit	Within the initial limit
		ΔC/C	Within+40%, −20% of the initial value	
		DF	≤ 1.5 times of the initial limit	
Damp heat (Load)	85°C, 85 to 90%RH, 500h, rated voltage applied	LC	Within the initial limit	
		ΔC/C	Within±5% of the initial value	
		DF	Within the initial limit	
Surge	105°C, 1,000 cycles, 1kΩ discharge resistance, surge voltage applied	LC	≤ 3 times of the initial limit	

Marking and dimensions

D2E, D3L size

※1 The rated voltage is as follows.

R.V.	6.3	10
Mark	j	A

※2 Lot.No.shows roughly manufacturing date.

※3 The rated capacitance is as follows.

Capacitance(μF)	68	150
Mark	W7	E8

Size code	L ±0.3	W ±0.2	H ±0.2※1	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

※1 ±0.1:D2E

Recommended land pattern dimension of PWB

Size code	a	b	c
D2E	2.4	2.9	3.7
D3L	2.4	2.9	3.7

Size list

RV	RV:Rated voltage	
	6.3	10.0
μF		
68		D2E
150	D2E	D3L

TV series characteristics list

Size code	Part number	Rated voltage (V)	Rated temperature (°C)	Rated capacitance (μF)	Category voltage (V)	Category temperature (°C)	DF (% max)	LC (μA) max/5min.	ESR (mΩmax) 100kHz/20°C	Maximum allowable ripple current (mA rms) 100kHz※1	MSL	
D2E	10TVE68M	10	105	68	6.3	125	10	68.0	25	2400	5	3
	6TVE150M	6.3	105	150	4.0	125	10	94.5	25	2400	5	3
D3L	10TVE150ML	10	105	150	6.3	125	10	150.0	25	2400	5	3

※1 100k to 500kHz,45°C