

TA Series High Reliability Products (For The Car Electronics)

Feature

TA series are high reliability products that the heat resistance and moisture resistance are improved.

*Suitable for the industrial equipment or car electronics (e.g. Car navigation system).

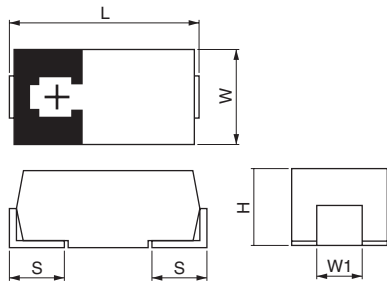


Specifications

Items	Condition	Characteristics	
Operating Temperature range	—	-55 to +105 (°C)	
Rated capacitance range	120Hz/20°C	47 to 680 (μF)	
Capacitance tolerance	120Hz/20°C	M:±20%	
Rated voltage	—	2.5 to 10 (V.DC)	
Dissipation Factor (D.F.)	120Hz/20°C	10.0 (%)	
Leakage current	Rated voltage applied, after 5 minutes	Please see the attached characteristics list	
Equivalent series resistance (E.S.R. mΩmax.)	100kHz/20°C	Please see the attached characteristics list	
Temperature characteristics of Impedance ratio	100kHz/+20°C	-55°C Z/Z _{20°C}	1.0 to 2.0
		+105°C Z/Z _{20°C}	0.6 to 1.0
Endurance	105°C, 2000h, rated voltage applied	ΔC/C	Within±20% of the initial value
		D.F.	≤ 1.5 times the initial limit
		L.C.	≤ The initial limit
Damp heat (Load)	85°C, 85%RH, 500h, rated voltage applied	ΔC/C	Within+40%, -20% of the initial value *1
		D.F.	≤ 1.5 times the initial limit
		L.C.	≤ The initial limit
Damp heat (Steady state)	60°C, 90 to 95%RH, 500h, No voltage applied	ΔC/C	Within+40%, -20% of the initial value *1
		D.F.	≤ 1.5 times the initial limit
		L.C.	≤ 3 times the initial limit
Surge	105°C, 1000 cycles, 1kΩdischarge resistance, surge voltage applied	ΔC/C	Within±5% of the initial value
		D.F.	≤ The initial limit
		L.C.	≤ 3 times the initial limit

Dimensions

*1 Within +50%, -20% of the initial value(2R5TAE470M(F,C), 2R5TAE330M(F,C), 2R5TAE220M(F,C)) (unit: mm)



Size code	L*2 (±0.3)	W (±0.2)	H*1 (±0.2)	S (±0.2)	W1 (±0.1)
B2	3.5	2.8	1.9	0.8	2.2
D2E	7.3	4.3	1.8	1.3	2.4
D3L	7.3	4.3	2.8	1.3	2.4

Size List

μF	RV (SV)	2.5	4	6.3	10
47				B2	B2
68				B2	D2E
100			B2		
150				D2E	
220		D2E	D2E	D2E	D3L
330		D2E		D3L	
470		D2E	D3L		
680		D3L			

*1 ±0.1:D2E,B2 *2 ±0.2:B2

Characteristics List

Size code	SANYO Part number	Rated Voltage (V)	Rated Temperature (°C)	Rated Capacitance (μF)	Category Voltage (V)	Category Temperature (°C)	D.F. (%max.)	L.C. (μA) max./5min.	E.S.R. (mΩmax.) 100kHz/20°C	Maximum allowable ripple current (mArms) 100kHz*1	MSL	
											Reflow Temp. ≤ 260°C	Reflow Temp. ≤ 250°C
B2	10TAB47M	10.0	105	47	10.0	105	8.0	47.0	70	1100	3	3
	6TAB68M	6.3	105	68	6.3	105	8.0	42.8	70	1100		
	6TAB47M	6.3	105	47	6.3	105	8.0	29.6	70	1100		
	4TAB100M	4.0	105	100	4.0	105	8.0	40.0	70	1100		
D2E	10TAE68M	10.0	105	68	10.0	105	10.0	68	25	2400		
	6TAE220M	6.3	105	220	6.3	105	10.0	138.6	25	2400		
	6TAE220MI								18	2800		
	6TAE150M								25	2400		
	4TAE220M	4.0	105	220	4.0	105	10.0	88	25	2400		
	4TAE220MI								18	2800		
	2R5TAE470M	2.5	105	470	2.5	105	10.0	117.5	25	2400		
	2R5TAE470MF								15	3100		
	2R5TAE470MC								12	3500		
	2R5TAE330M								25	2400		
	2R5TAE330MI								18	2800		
	2R5TAE330MF								15	3100		
	2R5TAE330MC	12	3500									
	2R5TAE220M	2.5	105	220	2.5	105	10.0	55	25	2400		
	2R5TAE220MF								15	3100		
	D3L	10TAE220ML	10.0	105	220	10.0	105	10.0	220.0	25	2400	
6TAE330ML		6.3	105	330	6.3	105	10.0	207.9	25	2400		
4TAE470ML		4.0	105	470	4.0	105	10.0	188	25	2400		
4TAE470MIL									18	2800		
2R5TAE680ML		2.5	105	680	2.5	105	10.0	170	25	2400		
2R5TAE680MFL									15	3100		

*1 100k to 500kHz, 45°C