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# Surface mount type TA Series



RoHS compliance, Halogen free  
High reliability: 85°C85%RH rated voltage applied (warranty)  
Power supply circuit of entertainment equipment for the car.

## Specifications

Items	Condition	Specifications			
Rated voltage (V)	-	2.5	4.0	6.3	10
Surge voltage (V)	-	2.9	4.6	7.2	12
Category temperature range (°C)	-	-55 to +105			
Capacitance tolerance (%)	120Hz/20°C	M : ±20			
Rated capacitance range (μF)	120Hz/20°C	47 to 680			
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 <sub>20°C</sub>	0.6 to 2.0	
		+105°C	Z/Z <sub>20°C</sub>	0.6 to 2.0	
Endurance	105°C, 2,000h, (B2 size : 1,000h) rated voltage applied	ΔC/C	Within±20% of the initial value		
		DF	≤ 1.5 times of the initial limit		
		LC	Within the initial limit		
Damp heat (Load)	85°C, 85 to 90%RH, 500h, rated voltage applied	ΔC/C	Within+40%, -20% of the initial value ※1		
		DF	≤ 1.5 times of the initial limit		
		LC	Within the initial limit		
Surge	105°C, 1,000 cycles, 1kΩ discharge resistance, surge voltage applied	ΔC/C	Within±5% of the initial value		
		DF	Within the initial limit		
		LC	≤ 3 times of the initial limit		

※1 Within +50%, -20% of the initial value(2R5TAE470M(F), 2R5TAE330M(F, I), 2R5TAE220M(F,9))

## Marking and dimensions

**B2size**  
Rated capacitance※3  
Anode(+) S7 J G  
Rated voltage※1  
Lot. No.※2

**D2E, D3Lsize**  
Rated capacitance  
Anode(+) W7 A8  
Rated voltage※1  
Lot. No.※2

※1 The rated voltage is as follows.

R.V.	2.5	4.0	6.3	10
Mark	e	g	j	A

※2 Lot.No.shows roughly manufacturing date.

※3 The rated capacitance is as follows.

Capacitance(μF)	47	68	100
Mark	S7	W7	A8

Size code	L ±0.3※2	W ±0.2	H ±0.2※1	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

(unit : mm)

※1 ±0.1: D2E, B2 ※2 ±0.2: B2

## Recommended land pattern dimension of PWB

Size code	a	b	c
B2	1.6	2.7	1.4
D2E	2.4	2.9	3.7
D3L	2.4	2.9	3.7

(unit : mm)

## Size list

RV: Rated voltage

μF	RV	2.5	4.0	6.3	10.0
47				B2	B2
68				B2	D2E
100			B2		
150				D2E	D3L
220	D2E	D2E	D2E	D2E	D3L
330	D2E			D3L	
470	D2E		D3L		
680	D3L				

## TA 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 Arms) 100kHz※1	MSL	
											Reflow temp. ≤ 260°C	Reflow temp. ≤ 250°C
B2	10TAB47M	10	105	47	10	105	8.0	47.0	70	1100	3	3
	6TAB68M	6.3	105	68	6.3	105	8.0	42.8	70	1100	3	3
	6TAB47M	6.3	105	47	6.3	105	8.0	29.6	70	1100	3	3
	4TAB100M	4.0	105	100	4.0	105	8.0	40.0	70	1100	3	3
D2E	10TAE68M	10	105	68	10	105	10	68.0	25	2400	3	3
	6TAE220M	6.3	105	220	6.3	105	10	138.6	25	2400	3	3
	6TAE220MI	6.3	105	220	6.3	105	10	138.6	18	2800	3	3
	6TAE150M	6.3	105	150	6.3	105	10	94.5	25	2400	3	3
	4TAE220M	4.0	105	220	4.0	105	10	88.0	25	2400	3	3
	4TAE220MI	4.0	105	220	4.0	105	10	88.0	18	2800	3	3
	2R5TAE470M	2.5	105	470	2.5	105	10	117.5	25	2400	3	3
	2R5TAE470MF	2.5	105	470	2.5	105	10	117.5	15	3100	3	3
	2R5TAE330M	2.5	105	330	2.5	105	10	82.5	25	2400	3	3
	2R5TAE330MI	2.5	105	330	2.5	105	10	82.5	18	2800	3	3
	2R5TAE330MF	2.5	105	330	2.5	105	10	82.5	15	3100	3	3
	2R5TAE220M	2.5	105	220	2.5	105	10	55.0	25	2400	3	3
	2R5TAE220MI	2.5	105	220	2.5	105	10	55.0	15	3100	3	3
	2R5TAE220MF	2.5	105	220	2.5	105	10	55.0	15	3100	3	3
	2R5TAE220M9	2.5	105	220	2.5	105	10	110.0	9	3900	3	3
D3L	10TAE220ML	10	105	220	10	105	10	220.0	25	2400	3	3
	10TAE150ML	10	105	150	10	105	10	150.0	25	2400	3	3
	6TAE330ML	6.3	105	330	6.3	105	10	207.9	25	2400	3	3
	4TAE470ML	4.0	105	470	4.0	105	10	188.0	25	2400	3	3
	4TAE470MIL	4.0	105	470	4.0	105	10	188.0	18	2800	3	3
	2R5TAE680ML	2.5	105	680	2.5	105	10	170.0	25	2400	3	3
2R5TAE680MFL	2.5	105	680	2.5	105	10	170.0	15	3100	3	3	

※1 100k to 500kHz, 45°C