

Selection guide

Technical dat

Surface mount type

Radial lead type

Catalog Deletion and EOL series

POSCAP

POSCAP Line-up

Guidelines and precautions

Series system diagram

Image of case size

Products list
Explanation of part numbers
Packing specifications

Fundamental structure

Characteristics

TPU
TPH
TPG

TPSF
TPE
TPB
TPC
TPF
TA

Surface mount type

TV TH

Catalog Deletion and

Catalog Deletion and EOL models

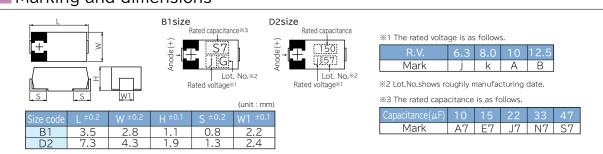


RoHS compliance, Halogen free Low profile: 1.1mm (B1)

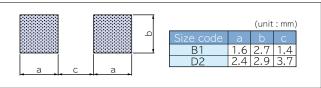
Specifications

Items	Condition	1	Specifications					
Rated voltage (V)	_	6.3	8.0	10	12.5			
Surge voltage (V)	_	7.2	9.2	12	14			
Category temperature range (°C)	_	-55 to +105						
Capacitance tolerance (%)	120Hz/20℃	M: ±20						
Rated capacitance range (µF)	120Hz/20℃	10 to 470						
Dissipation Factor (DF)	120Hz/20℃	Please see the attached characteristics list						
Leakage current	Rated voltage applied, at	Please see the attached characteristics list						
Equivalent series resistance (ESR)	100kHz/+20	Please see the attached characteristics list						
Characteristics of impedance ratio at high temp. and low temp.	100kHz/20℃	-55℃ Z/Z20℃	0.6 to 2.0					
		+105℃ Z/Z20℃	0.6 to 2.0					
Endurance	105°C, 2,000h B2 size:105°C, 1,000h, Rated voltage applied *Rated temp. 85°C products: 85°C, 1,000h, rated voltage applied	∆C/C	Within±20% of the initial value					
	Rated voltage applied	DF	≤ 1.5 times of the initial limit					
	85°C, 1,000h, rated voltage applied	LC	Within the initial limit					
Damp heat (Steady State)	(0°C 00 ±- 050/511 500b	∆C/C	Within+40%,-20% of the initial value					
	60°C, 90 to 95%RH, 500h, No-applied voltage	DF	\leq 1.5 times of the initial limit					
	The applied veltage	LC	≤ 3 times of the initial limit					
	105℃, 1,000 cycles,	∆C/C	Within±5% of the initial value					
Surge	1kΩdischarge resistance, surge voltage applied	DF	Within the initial limit					
	*Rated temp. 85℃ products:85℃	LC	≤ 3 times of the initial limit					

Marking and dimensions



Recommended land pattern dimension of PWB



Size list

RV:Rated voltage

μF	6.3	8.0	10.0	12.5
10				В1
15				В1
22		В1		
33	В1		B1	
47	B1			
68			D2	
100	D2		D2	
150	D2	D2		
330	D2			

■ TPC series characteristics list

Size code		Rated	Rated	Rated	Category	Category		LC	ESR	Maximum allowable	MSL	
	Part number	voltage (V)	temperature (°C)	capacitance (μF)	voltage (V)	temperature (°C)	(% max)	(μA) max/5min.	(mΩmax) 100kHz/20℃	ripple current (mArms) 100kHz*1	Reflow temp. ≤ 260°C	Reflow temp. ≤ 250°C
В1	12TPC15M	12.5	85	15	10	105	10	18.8	80	800	3	3
	12TPC10M	12.5	85	10	10	105	10	12.5	80	800	3	3
	8TPC22M	8.0	85	22	6.3	105	10	17.6	70	1000	3	3
	6TPC47MB	6.3	85	47	5.0	105	10	29.6	70	1000	3	3
	6TPC47M	6.3	85	47	5.0	105	10	29.6	55	1100	3	3
D2	10TPC100M	10	105	100	10	105	10	100.0	45	1700	3	2a
	10TPC68M	10	105	68	10	105	10	68.0	45	1700	3	2a
	8TPC150M	8.0	105	150	8.0	105	10	120.0	40	1900	3	2a
	6TPC330MA	6.3	85	330	5.0	105	10	207.9	40	1900	3	2a
	6TPC150M	6.3	105	150	6.3	105	10	94.5	40	1900	3	2a
	6TPC100M	6.3	105	100	6.3	105	10	63.0	45	1700	3	2a

%1 100k~500kHz,45℃

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