

Selection guide

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Radial lead type

Catalog Deletion and EOL series

POSCAP

POSCAP Line-up

Guidelines and precautions

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Explanation of part numbers
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Fundamental structure

Characteristics

Reliability

TPU
TPH
TPG
TPSF

TPE
TPB
TPC
TPF
TA
TV

Surface mount type

TH

Catalog Deletion and EOL models

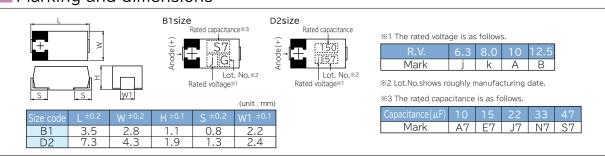


RoHS compliance, Halogen free Low profile: 1.1mm (B1)

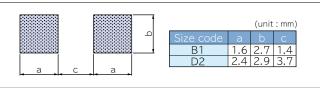
Specifications

Items	Condition		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.	100141-720%	-55℃ Z/Z20℃	0.6 to 2.0						
ratio at high temp. and low temp.	100kHz/20℃	+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:	∆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						
	(0°C 00 050/5H 500	∆C/C	Within+40%,-20% of the initial value						
Damp heat (Steady State)	60°C, 90 to 95%RH, 500h, No-applied voltage	DF	≤ 1.5 times of the initial limit						
	110 applied voltage	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

RV μF	6.3	8.0	10.0	12.5
10				В1
15				B1
22		В1		
33	B1		B1	
47	В1			
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℃

OS-CON

Selection guide

Surface mount type

ΡΟΣΟΛΡ

Series system diagram Products list Packing specifications Characteristics Reliability TPU TPH TPG TPSF Surface mount type TPE TPB

TPF TA TV