

RoHS compliance

Small size

Large capacitance

TPG series is designed to be small, have a low-profile and large capacitance . Suitable for the space sensitive electronic devices.





Specifications

Items	Condition	Specifications								
Rated voltage (V)	-			2.5	4.0	6.3	8.0	10	12.5	
Surge voltage (V)	-			2.9	4.6	7.2	9.2	12	14	
Category temperature range (°C)	_			-55 to +105						
Capacitance tolerance (%)	120Hz/20°C	2		M:±20						
Rated capacitance range (μF)	120Hz/20°C	C				33 to	220			
Dissipation Factor (DF)	120Hz/20°C	C		Р	lease see	the attach	ned charac	teristics	list	
Leakage current	Rated voltage applied, af	Please see the attached characteristics list								
Equivalent series resistance (ESR)	100kHz/20°	100kHz/20℃				Please see the attached characteristics list				
Characteristics of impedance	100kHz/+20℃	-55℃	Z/Z20°C	0.6 to 2.0						
ratio at high temp. and low temp.	TUUKHZ/+20 G	+105℃	Z/Z20°C	0.6 to 2.0						
		△(△C/C Within±20% of the initi			the initial	value			
Endurance	85°C, 1,000h rated voltage applied	С)F	≤ 1.5 times of the initial limit						
		L	.C	Within the initial limit						
		△C/C		Within+40%,-20% of the initial value						
Damp heat (Steady State)	60°C, 90 to 95%RH, 500h, No-applied voltage)F	≤ 1.5 times of the initial limit						
		L	.C	≤ 3 times of the initial limit						
	85℃, 1,000 cycles,	△(C/C	Within±5% of the initial value						
Surge	1kΩ discharge resistance,		DF		Within the initial limit					
	surge voltage applied	L	.C	≤ 3 times of the initial limit						

POSCAP POSCAP Line-up

Catalog Deletion and EOL series

Guidelines and precautions for use Series system diagram

Image of case size

soldering condition Fundamental

SVPS SVPD

SVPB SVPA SVQP SVP SEPF

SEPC SEQP

Characteristics Reliability SVPF SVPE

Products list

guide

Selection

data

Technical

Surface mount type

lead type

Padial

Guidelines and precautions for use

Series system diagram Image of case size

guide Selection Products list Explanation of part numbers

Packing specifications Marking

Fundamental Characteristics data

Technical

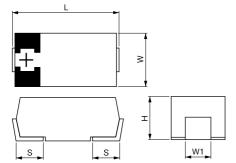
Reliability TPU

TPH	
TPG	ď
TPSF	VDA
TPE	
TPB/TPC	וווסת
TPL·TPLF	e E
TPF	ā
TA	S. S.
TV	٠.
TH	

Catalog Deletion and EOL models

TQC

Dimensions



					(unit. mm)	
e e	L +0.3 -0.1	W ^{+0.3} _{-0.1}	H ±0.1	S ±0.2	W1 ±0.1	

RV: Rated voltage

Size code	L +0.3 -0.1	W ^{+0.3} -0.1	H ±0.1	S ±0.2	W1 ±0.1	
B1G	3.5	2.8	1.1	0.8	2.2	
B15G	3.5	2.8	1.4	0.8	2.2	
5136	0.0	۷.۵	1.4	0.0	ے.ح	

Size list

RV μF	2.5	4.0	6.3	8.0	10	12.5
33						BIG
47				BIG	B1G	
100			BlG			
150			B15G			
220	B1G,B15G	B15G	B15G			

TPG series characteristics list

0: .		Rated	Rated	Rated	Category	Category	DE	LC	ESR	Maximum allowable	M	SL
Size code		voltage (V)	temperature (°C)	capacitance (µF)	voltage (V)	temperature (°C)	DF (% max)	(μA) max/5min.	(mΩmax) 100kHz/20°C	ripple current (mArms) 100kHz ^{**1}	Reflow temp. ≤ 260°C	Reflow temp. ≤ 250°C
	12TPG33M	12.5	85	33	10	105	10.0	41.3	70	1000	3	3
	10TPG47M	10	85	47	8.0	105	10.0	47.0	70	1000	3	3
D.16	8TPG47M	8.0	85	47	6.4	105	10.0	37.6	70	1000	3	3
B16	6TPG100M	6.3	85	100	5.0	105	10.0	63.0	70	1000	3	3
	6TPG100MG	6.3	85	100	5.0	105	10.0	63.0	55	1100	3	3
	2R5TPG220M	2.5	85	220	2.0	105	10.0	55.0	70	1000	3	3
	6TPG220MZG*2	6.3	85	220	5.0	105	10.0	277.2	35/300kHz	1200	3	3
	6TPG150M	6.3	85	150	5.0	105	10.0	94.5	70	1000	3	3
B15G	6TPG150MZG	6.3	85	150	5.0	105	10.0	189.0	35/300kHz	1200	3	3
	4TPG220M	4.0	85	220	3.2	105	10.0	88.0	70	1000	3	3
	2R5TPG220MUG	2.5	85	220	2.0	105	10.0	110.0	30/300kHz	1400	3	3

%1 100k to 500kHz,45℃ %2 Under development