

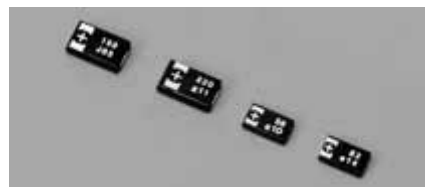
## TPC Series

C1,D2

[B1 size is here](#)

### Low Profile Products

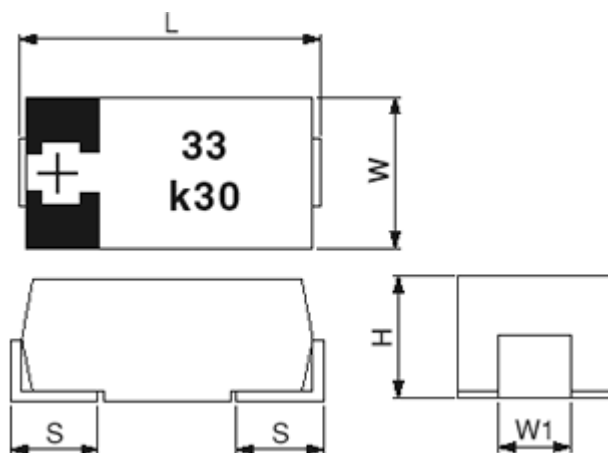
TPC series has low profile and low ESR. TPC series aids in the miniaturization of any products.

[Series PDF download](#)

### Specifications

Items	Condition	Characteristics		
Operating Temperature range	-	-55 to +105(°C)		
Rated capacitance range	120Hz/20°C	33 to 330(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	≦0.1CV(μA)		
Equivalent series resistance ESR(mΩ max.)	100kHz/20°C	Please see the attached characteristics list		
Temperature characteristics of Impedance ratio	100kHz/+20°C	-55°C	Z/Z20°C	1.0 to 2.0
		+105°C	Z/Z20°C	0.6 to 1.0
Endurance	105°C, 2000h, rated voltage applied C1 size: 1000h	ΔC/C	Within ±20% of the initial value	
		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	
		D.F.	≦1.5 times the initial limit	
		L.C.	≦3 times the initial limit	
Surge	105°C, 1000 cycles, 1kΩ discharge. 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(unit:mm)(C1,D2 size)



size code	L (±0.2)	W (±0.2)	H (±0.1)	S (±0.2)	W1 (±0.1)
C1	6.0	3.2	1.4	1.3	1.8
D2	7.3	4.3	1.9	1.3	2.4

### Size List

μF/RV(sv)	2.5 (3.2)	4.0 (5.0)	6.3 (8.0)	8.0 (10.0)	10.0 (13.0)
33				C1	
56		C1			
68			C1		D2
82	C1				
100		C1	D2,C1		D2
150		D2	D2	D2	
220	D2				
330	D2				

### Characteristics List

Size code	SANYO Part number	Rated Voltage (V)	Rated Capacitance (μF)	D.F. (% max.)	L.C. (μA) max./5min.	E.S.R. (mΩmax) 100kHz/20 °C	Maximum allowable ripple current (mA rms) 100kHz*1	MSL Reflow Reflow Temp. Temp. ≦260°C ≦250°C	
C1	8TPC33M	8.0	33	10.0	26.4	70	1200		
	6TPC68M	6.3	68	10.0	42.8	55	1300		
	6TPC100MC	6.3	100	10.0	63.0	55	1300	3	3
	4TPC56M	4.0	56	10.0	22.4	70	1200		
	4TPC100M	4.0	100	10.0	40.0	55	1300		
	2R5TPC82M	2.5	82	10.0	20.5	70	1200		
	10TPC68M	10.0	68	10.0	68.0	45	1700		
	10TPC100M	10.0	100	10.0	100.0	45	1700		
D2	8TPC150M	8.0	150	10.0	120.0	40	1900		
	6TPC100M	6.3	100	10.0	63.0	45	1700		
	6TPC150M	6.3	150	10.0	94.5	40	1900	3	2a
	4TPC150M	4.0	150	10.0	60.0	45	1700		
	4TPC220M	4.0	220	10.0	88.0	40	1900		
	2R5TPC220M	2.5	220	10.0	55.0	45	1700		
	2R5TPC330M	2.5	330	10.0	82.5	40	1900		

\*1:100k to 500kHz,45°C