

Specifications

Series		TPA	TPB	TPC
Operating temperature range (°C)		-55 to 105		
Nominal cap. range(120Hz/20°C)(μF)		33 to 220	100 to 330	68 to 220
Capacitance tolerance(120Hz/20°C)		M:±20%		
Rated voltage range(V.DC)		4 to 10	2.5 to 10	2.5 to 10
Tangent of loss angle(tanδ)(120Hz/20°C)		≤0.08		≤0.10
Leakage current(Rated voltage applied, after 5 minutes)(μA)		≤0.1CV		
Equivalent series resistance(E.S.R.)(mΩ)(100kHz/20°C)(Max.)		C:100 D3:80	55 or 65	45
Impedance ratio(100kHz/+20°C)	-55°C	Z/Z20°C		
	105°C	Z/Z20°C		
Maximum allowable ripple current(mA rms)*		C:1000 D3:1200	1500 or 1900	1700
High temperature load(105°C, 1000Hrs., Rated voltage applied)		ΔC/C	Within ±20% of the initial value	
		tanδ	≤1.5 times the initial standard	
		LC	≤The initial standard	
Moisture resistance (60°C, 90 to 95%RH, 500Hrs., No voltage applied)		ΔC/C	Within +40%, -20% of the initial value	
		tanδ	≤1.5 times the initial standard	
		LC	≤3 times the initial standard	
Size(mm)	LxWxH	C:6.0x3.2x2.8	D3:7.3x4.3x3.1	D2:7.3x4.3x1.9
		D3:7.3x4.3x3.1		

*100k to 500kHz, 45°C

Characteristics list

Size Code	SANYO Part number	Rated Voltage (V)	Nominal Capacitance (μF)	Tangent δ (max)	Leakage current (μA) max/5min.	E.S.R. 100kHz (mΩ max)	Maximum allowable ripple current (mA rms) 100kHz*
C	10TPA33M	10.0	33	0.08	33.0	100	1000
	6TPA47M	6.3	47	0.08	29.6	100	1000
D3	10TPA100M	10.0	100	0.08	100.0	80	1200
	6TPA150M	6.3	150	0.08	94.5	80	1200
	4TPA220M	4.0	220	0.08	88.0	80	1200
D3	10TPB100M	10.0	100	0.08	100.0	55	1900
	6TPB150M	6.3	150	0.08	94.5	55	1900
	4TPB220M	4.0	220	0.08	88.0	65	1500
	2R5TPB330M	2.5	330	0.08	82.5	65	1500
D2	10TPC68M	10.0	68	0.10	68.0	45	1700
	6TPC100M	6.3	100	0.10	63.0	45	1700
	4TPC150M	4.0	150	0.10	60.0	45	1700
	2R5TPC220M	2.5	220	0.10	55.0	45	1700

*100k to 500kHz, 45°C