

TPB Series

B2 Size Products

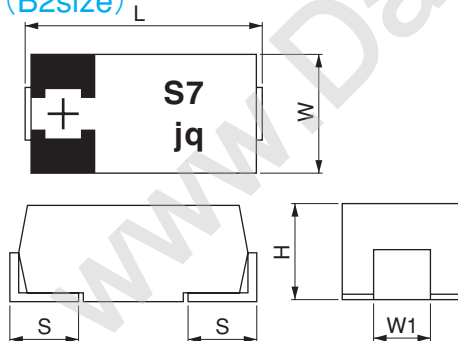
B2 size is the miniaturized version of TPB series.



Specifications

Operating Temperature range (°C)		-55 to +105	
Rated capacitance range (120Hz/20°C) (μF)		33 to 150	
Capacitance tolerance (120Hz/20°C)		M:±20%	
Rated voltage (V.DC)		2.5 to 10	
Dissipation Factor (D.F.) (120Hz/20°C) (%)		≤8.0	
Leakage current (Rated voltage applied, after 5 minutes) (μA)		≤0.1CV	
Equivalent series resistance E.S.R (mΩmax.) , (100kHz/20°C)		Please see the attached characteristic list	
Temperature characteristics of Impedance ratio (100kHz/+20°C)	-55°C	Z/Z _{20°C}	1.0 to 2.0
	+105°C	Z/Z _{20°C}	0.6 to 1.0
Endurance (105°C, 1000h, rated voltage applied) *6TPB100MA, 4TPB150MA:85°C, 1000h, rated voltage applied	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, 1kΩdischarge resistance, surge voltage applied) *6TPB100MA, 4TPB150MA : 85°C	ΔC/C	Within±5% of the initial value	
	D.F.	≤The initial limit	
	L.C.	≤3 times the initial limit	

Dimensions (unit: mm) (B2size)



Size code	L (±0.2)	W (±0.2)	H (±0.1)	S (±0.2)	W1 (±0.1)
B2	3.5	2.8	1.9	0.8	2.2

Size List

RV (SV) μF	2.5 (3.2)	4.0 (5.0)	6.3 (8.0)	8.0 (10.0)	10.0 (13.0)
33				B2	B2
47			B2	B2	
68		B2	B2		
100	B2	B2	B2		
150		B2			

Characteristics list

Size code	SANYO Part number	Rated Voltage (V)	Rated Temperature (°C)	Rated Capacitance (μF)	D.F. (%max.)	L.C. (μA) max./5min.	E.S.R. (mΩmax.) 100kHz/20°C	Maximum allowable ripple current (mArms) 100kHz*1
B2	10TPB33M	10.0	105	33	8.0	33.0	70	1100
	8TPB47M	8.0	105	47	8.0	37.6	70	1100
	8TPB33M	8.0	105	33	8.0	26.4	70	1100
	6TPB47M	6.3	105	47	8.0	29.6	70	1100
	6TPB68M	6.3	105	68	8.0	42.8	70	1100
	4TPB68M	4.0	105	68	8.0	27.2	70	1100
	4TPB100M	4.0	105	100	8.0	40.0	70	1100
	2R5TPB100M	2.5	105	100	8.0	25.0	70	1100

*1:100k to 500kHz, 45°C

Size code	SANYO Part number	Rated Voltage (V)	Rated Temperature (°C)	Category Voltage (V)	Category Temperature (°C)	Rated Capacitance (μF)	D.F. (%max.)	L.C. (μA) max./5min.	E.S.R. (mΩmax.) 100kHz/20°C	Maximum allowable ripple current (mArms) 100kHz*1
B2	6TPB100MA	6.3	85	5.0	105	100	8.0	63.0	55	1200
	4TPB150MA	4.0	85	3.2	105	150	8.0	60.0	70	1100

*1:100k to 500kHz, 45°C