

TP Series

SAMXON®

Lug/Snap-in Terminal Type(插入/自立型), Ultra Long Life(長壽命)

FEATURES

1. Directly mountable on printed circuit board without holders.
2. Terminal spacing fixed at 10mm for PC board plug in.
3. Aluminum case designed with explosion-proof vent.
4. Load life : 10000 hours.



SPECIFICATIONS

Item	Performance Characteristics				
Operating Temperature Range	-25 to +85°C				
Rated Working Voltage Range	200 to 450V				
Nominal Capacitance Range	56 to 2200µF				
Capacitance Tolerance	±20% (120Hz, +20°C)				
Leakage Current	$I \leq 3 \sqrt{CV}$ (µA) after 5 minutes application of rated working voltage at +20°C				
Dissipation Factor tan δ (120Hz, +20°C)	Working Voltage (V)	200 ~ 250	400 ~ 450		
	tan δ (max.)	0.15	0.15		
Low Temperature Characteristics	Impedance ratio max. at 120Hz				
	Working Voltage (V)	200 ~ 250	400 ~ 450		
	Z-25°C / Z+20°C	3	8		
High Temperature Loading	Testing time	: 10000 hours			Post test requirements at +20°C
	Testing temp.	: +85°C			Leakage current : ≤ Initial specified value
	Testing condition : Rated DC working voltage with the max. ripple current				Cap. change : within ±30% of initial measured value
					tan δ : ≤ 300% of initial specified value
Shelf Life	At 85°C no voltage applied after 1000 hours and then being stabilized at 20°C the capacitors shall meet the following limits				
	Leakage current : ≤ Initial specified value				
	Cap. change : within ±15% of initial measured value				
	tan δ : ≤ 150% of initial specified value				
Others	JIS C - 5101 (IEC 60384-4)				

RIPPLE CURRENT MULTIPLIER

Temperature Coefficient					Frequency Coefficient				
1) Maximum rms ripple current at 120Hz, 85°C are given in the table.					3) Frequency multiplying factor:				
2) Temperature multiplying factor:					If capacitors are used to filter circuits at a frequency other than 120Hz, the				
Where capacitors are operated at temperature other than 85°C,					maximum ripple current must be multiplied by the figure shown in the table below.				
the maximum ripple current must be multiplied by the figure									
shown in the table below.									
Temperature(°C)	20 ~ 45	65	75	85	Freq.(Hz)	60	120	1K	10 ~ 50K
Factor	1.37	1.25	1.18	1.00	200 ~ 250V	0.80	1.00	1.15	1.47
					400 ~ 450V	0.80	1.00	1.15	1.47

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DIMENSIONS

Voltage (Code)		200V (2D)		250V (2E)		400V (2G)		450V (2W)	
Cap.(μ F)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
56	566							20 x 25	0.58
68	686					20 x 25	0.71	20 x 30	0.67
								22 x 25	0.68
82	826					20 x 30	0.78	20 x 35	0.76
						22 x 25	0.80	22 x 30	0.82
100	107					20 x 30	0.90	20 x 35	0.84
						22 x 30	0.94	22 x 35	0.90
								25 x 25	0.92
120	127					20 x 35	1.02	20 x 40	0.94
						22 x 30	1.04	22 x 35	1.02
						25 x 25	1.08	25 x 30	1.04
								30 x 25	1.07
150	157					20 x 40	1.16	22 x 40	1.12
						22 x 35	1.18	25 x 35	1.19
						25 x 30	1.21	30 x 30	1.23
180	187			20 x 25	1.14	22 x 40	1.34	22 x 50	1.26
						25 x 35	1.37	25 x 40	1.33
						30 x 25	1.45	30 x 30	1.38
220	227	20 x 25	1.13	20 x 30	1.20	22 x 45	1.50	25 x 45	1.51
				22 x 25	1.18	25 x 35	1.56	30 x 35	1.56
						30 x 30	1.58	35 x 30	1.58
270	277	20 x 30	1.32	20 x 30	1.35	25 x 40	1.70	25 x 50	1.65
		22 x 25	1.30	22 x 30	1.43	30 x 35	1.73	30 x 40	1.80
								35 x 35	1.81
330	337	20 x 30	1.49	20 x 35	1.60	25 x 50	1.90	30 x 45	2.02
		22 x 25	1.44	22 x 30	1.58	30 x 40	1.95	35 x 35	2.05
				25 x 25	1.53	35 x 30	1.95		
390	397	20 x 35	1.66	20 x 40	1.83	30 x 40	2.15	30 x 50	2.24
		22 x 30	1.65	22 x 35	1.79	35 x 35	2.17	35 x 40	2.27
		25 x 25	1.63	25 x 30	1.79				
470	477	20 x 40	1.93	22 x 40	2.05	30 x 50	2.39		
		22 x 35	1.88	25 x 35	2.05	35 x 40	2.42	35 x 45	2.55
		25 x 30	1.86	30 x 25	1.94				
560	567	22 x 40	2.08	22 x 45	2.36				
		25 x 30	2.05	25 x 35	2.24	35 x 45	2.71		
		30 x 25	2.05	30 x 30	2.24				
680	687	22 x 45	2.36	25 x 40	2.54				
		25 x 35	2.36			35 x 50	2.95		
		30 x 30	2.36	30 x 35	2.58				
820	827	22 x 50	2.68	25 x 50	2.87				
		25 x 40	2.66	30 x 35	2.84				
		30 x 30	2.62	35 x 30	2.82				
1000	108	25 x 45	3.12	30 x 45	3.39				
		30 x 35	3.00						
		35 x 30	2.96	35 x 35	3.31				
1200	128	25 x 50	3.44	30 x 50	3.80				
		30 x 40	3.44	35 x 40	3.66				
		35 x 35	3.40						
1500	158	30 x 50	3.93						
		35 x 40	3.87	35 x 45	4.12				
1800	188	35 x 45	4.37	35 x 50	4.31				
2200	228	35 x 50	5.00						

Maximum Allowable Ripple Current (A rms) at 85°C 120Hz

Case Size ϕ D x L(mm)

TP

Large Can Aluminum Electrolytic Capacitors