

WT Series

SAMXON

Screw Terminal Type(螺釘型), Standard(標準品)

FEATURES

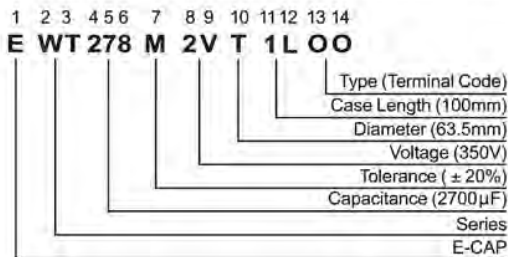
1. Load life of 2000 hours application of ripple current at 105°C
2. Suitable for use in electronic and industrial equipments such as computer, programming control exchanger for power supplies filtering and energy storing.



SPECIFICATIONS

Item	Performance Characteristics	
Operating Temperature Range	-40 to +105°C	-25 to +105°C
Rated Working Voltage Range	10 to 100V	160 to 500V
Nominal Capacitance Range	180 to 680000µF	
Capacitance Tolerance	±20% (120Hz, +20°C)	
Leakage Current	I ≤ 0.02CV (µA) or 5(mA) whichever is smaller measured after 5 minutes application of rated working voltage at +20°C	
tan δ (120Hz, +20°C)	The values shown in the STANDARD RATINGS tables	
Low Temperature Characteristics	Impedance ratio max. at 120Hz	
	Working Voltage (V)	10 ~ 100 160 ~ 500
	Z-25°C / Z+20°C	— 8
	Z-40°C / Z+20°C	15 —
High Temperature Loading	Test conditions	Post test requirements at +20°C
	The following specifications shall be satisfied when the capacitors are restored to +20°C after the rated voltage with the rated ripple current applied for 2000 hours at +105°C	Leakage current : ≤ Initial specified value Cap. change : within ±20% of initial measured value tan δ : ≤ 200% of initial specified value
Shelf Life	At 105°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 ±20% of initial measured value tan δ : ≤ 200% of initial specified value	
Others	JIS C - 5101 (IEC 60384)	

PART NUMBER SYSTEM (EXAMPLE:350V2700µF)



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CASE SIZE TABLE

Method mount metal bracket

Unit : mm

Method to mount resin bushing (φ76) (Apply to L=150 or more)

Unit : mm

*** B**
3-leg brackets for φ90 capacitors have different hole shapes from the ordinary ones illustrated below.

Unit : mm

Method to mount resin bushing (φ90) (Apply to L=150 or more)

Unit : mm

Screw terminal type (φ35)

Unit : mm

Dimension of terminal pitch (w) and Nominal dia. of bolt

φD	w	α	Nominal dia. of bolt
35	12.7	3	M5
51	22.0	3	M5
63.5	28.6	3	M5
76	31.8	3	M5
90	31.8	3	M5

Dimensions of mounting bracket

Voltage (Code)		3 - Leg				2 - Leg				
Symbol	φD	51	63.5	76	90	35	51	63.5	76	90
P		32.5	38.1	44.5	50.8	24	33.2	40.5	46.5	53
A		38.5	43	49.2	58.5	29	40	46.5	53	59
T		7.5	8.0	7.0	8.0	6.0	6.0	7.0	6.0	6.0
S		5.0	5.0	5.0	5.0	3.5	4.5	4.5	4.5	4.5
U		12	14	14	18	10	14	14	14	14
θ°		60	60	60	60	30	30	30	30	30
H		20	25	30	35	15	25	35	35	35
h		15	20	24	25	10	15	20	20	20

RIPPLE CURRENT MULTIPLIER

Frequency Coefficient							
Rated Voltage(V)	Coefficient	Freq.(Hz)	50	120	300	1k	10k -
< 160			0.80	1.00	1.08	1.15	1.15
≥ 160			0.80	1.00	1.08	1.15	1.20

Screw Terminal Type(螺釘型), Standard(標準品)

STANDARD RATINGS

Voltage (Code)		10V (1A)			16V (1C)			25V (1E)		
SV		13			20			32		
Cap.(μF)	Code	Case Size	Tanδ	Ripple Current	Case Size	Tanδ	Ripple Current	Case Size	Tanδ	Ripple Current
12000	129							35 x 50	0.35	3.7
15000	159							35 x 50	0.35	4.1
18000	189				35 x 50	0.40	4.2	35 x 60	0.35	4.8
22000	229				35 x 50	0.40	4.7	35 x 60	0.35	5.3
27000	279	35 x 50	0.45	4.9	35 x 60	0.40	5.5	35 x 80	0.35	6.4
33000	339	35 x 50	0.50	5.1	35 x 60	0.45	5.7	35 x 80	0.40	6.7
39000	399	35 x 60	0.50	5.9	35 x 80	0.45	6.8	35 x 100	0.40	7.8
47000	479	35 x 80	0.50	7.1	35 x 80	0.50	7.1	35 x 120	0.40	9.3
56000	569	35 x 80	0.60	7.1	35 x 100	0.50	8.4	51 x 80	0.45	9.7
68000	689	35 x 100	0.60	8.5	35 x 100	0.55	8.8	51 x 100	0.45	11.2
82000	829	35 x 100	0.65	8.9	51 x 80	0.55	10.7	51 x 100	0.50	11.2
100000	10T	35 x 120	0.65	10.7	51 x 80	0.65	10.8	51 x 120	0.50	14.8
120000	12T	51 x 80	0.75	11.0	51 x 100	0.65	13.1	63.5 x 100	0.65	14.9
150000	15T	51 x 100	0.80	13.2	51 x 120	0.70	15.3	63.5 x 120	0.65	17.9
180000	18T	51 x 120	0.80	15.7	51 x 120	0.80	15.7	63.5 x 120	0.80	17.9
220000	22T	51 x 120	0.85	16.8	63.5 x 120	0.85	19.2	76 x 120	0.85	21.3
270000	27T	63.5 x 120	1.00	19.6	63.5 x 120	1.00	19.6	76 x 120	1.00	21.7
330000	33T	63.5 x 120	1.20	19.7	76 x 120	1.30	21.1	76 x 140	1.20	23.4
390000	39T	76 x 120	1.50	21.3	76 x 120	1.50	21.3	90 x 140	1.50	24.9
470000	47T	76 x 120	1.80	21.4	76 x 140	1.60	24.2			
560000	56T	76 x 140	2.00	23.6	90 x 140	2.00	28.1			
680000	68T	90 x 140	2.40	26.0	90 x 140	2.40	28.5			

Maximum Allowable Ripple Current (A rms) at 105°C 120Hz
tanδ at 20°C 120Hz

Case Size φDxL(mm)

Voltage (Code)		35V (1V)			50V (1H)			63V (1J)		
SV		44			63			79		
Cap.(μF)	Code	Case Size	Tanδ	Ripple Current	Case Size	Tanδ	Ripple Current	Case Size	Tanδ	Ripple Current
2700	278							35 x 50	0.20	2.3
3300	338							35 x 50	0.20	2.5
3900	398				35 x 50	0.20	2.8	35 x 50	0.20	2.8
4700	478				35 x 50	0.20	3.1	35 x 50	0.20	3.1
5600	568				35 x 50	0.20	3.3	35 x 60	0.20	3.5
6800	688				35 x 50	0.25	3.3	35 x 60	0.20	3.9
8200	828	35 x 50	0.30	3.3	35 x 60	0.25	3.8	35 x 80	0.20	4.7
10000	109	35 x 50	0.30	3.6	35 x 80	0.25	4.6	35 x 80	0.25	4.7
12000	129	35 x 60	0.30	4.2	35 x 80	0.25	5.1	35 x 100	0.25	5.5
15000	159	35 x 60	0.30	4.7	35 x 80	0.25	5.7	35 x 120	0.25	6.6
18000	189	35 x 80	0.30	5.7	35 x 100	0.25	6.7	51 x 80	0.25	7.4
22000	229	35 x 80	0.30	6.3	35 x 120	0.25	8.1	51 x 100	0.25	9.0
27000	279	35 x 100	0.30	7.5	51 x 80	0.25	9.1	51 x 120	0.25	10.9
33000	339	35 x 120	0.30	9.0	51 x 100	0.25	11.1	51 x 120	0.25	12.0
39000	399	51 x 80	0.35	9.2	51 x 120	0.25	13.1	63.5 x 100	0.30	12.5
47000	479	51 x 100	0.35	11.2	51 x 120	0.30	13.9	63.5 x 120	0.30	14.9
56000	569	51 x 100	0.40	11.4	63.5 x 100	0.35	13.9	63.5 x 120	0.30	16.3
68000	689	51 x 120	0.40	13.6	63.5 x 120	0.35	16.6	76 x 120	0.35	18.4
82000	829	63.5 x 100	0.45	14.8	76 x 120	0.40	18.9	76 x 140	0.40	20.0
100000	10T	63.5 x 120	0.45	17.6	76 x 120	0.45	19.5	76 x 140	0.50	20.0
120000	12T	63.5 x 120	0.55	17.6	76 x 120	0.55	19.5	90 x 140	0.60	21.8
150000	15T	76 x 120	0.65	19.8	90 x 140	0.60	23.9			
180000	18T	76 x 120	0.80	19.8	90 x 140	0.75	23.9			
220000	22T	76 x 140	0.80	23.4						
270000	27T	90 x 140	1.00	25.5						

Maximum Allowable Ripple Current (A rms) at 105°C 120Hz
tanδ at 20°C 120Hz

Case Size φDxL(mm)

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WT
Large Can Aluminum Electrolytic Capacitors

Screw Terminal Type(螺釘型), Standard(標準品)

STANDARD RATINGS

Voltage (Code)		80V (1K)			100V (2A)			160V (2C)		
SV		100			125			200		
Cap. (μF)	Code	Case Size	Tanδ	Ripple Current	Case Size	Tanδ	Ripple Current	Case Size	Tanδ	Ripple Current
560	567							35 x 50	0.15	1.2
680	687							35 x 50	0.15	1.3
820	827							35 x 50	0.15	1.4
1000	108							35 x 50	0.15	1.6
1200	128							35 x 60	0.15	1.9
1500	158							35 x 60	0.15	2.1
1800	188				35 x 50	0.10	2.7	35 x 80	0.15	2.5
2200	228	35 x 50	0.15	2.4	35 x 50	0.10	3.0	35 x 80	0.15	2.8
2700	278	35 x 50	0.15	2.7	35 x 60	0.10	3.5	35 x 100	0.15	3.3
3300	338	35 x 50	0.15	3.0	35 x 80	0.10	4.2	35 x 120	0.15	3.8
3900	398	35 x 60	0.15	3.4	35 x 80	0.12	4.2	51 x 80	0.20	3.8
4700	478	35 x 60	0.15	3.7	35 x 100	0.12	5.0	51 x 100	0.20	4.6
5600	568	35 x 80	0.15	4.5	35 x 100	0.12	5.4	51 x 100	0.20	5.1
6800	688	35 x 80	0.15	4.9	35 x 120	0.15	5.8	51 x 120	0.20	6.1
8200	828	35 x 100	0.20	5.1	51 x 80	0.15	6.4	63.5 x 100	0.20	7.0
10000	109	35 x 120	0.20	6.1	51 x 100	0.15	7.8	63.5 x 120	0.20	8.4
12000	129	51 x 80	0.20	6.7	51 x 120	0.15	9.3	76 x 100	0.20	9.4
15000	159	51 x 100	0.20	8.3	51 x 120	0.15	10.4	76 x 120	0.20	11.4
18000	189	51 x 120	0.20	9.9	63.5 x 100	0.20	10.4	76 x 140	0.20	13.4
22000	229	51 x 120	0.20	11.0	63.5 x 120	0.20	12.5	90 x 140	0.25	14.5
27000	279	63.5 x 100	0.25	11.4	76 x 120	0.25	13.7	90 x 140	0.25	16.0
33000	339	76 x 100	0.25	13.9	76 x 120	0.25	15.2			
39000	399	76 x 100	0.30	13.9	76 x 140	0.30	16.1			
47000	479	76 x 120	0.30	16.5	90 x 140	0.30	19.3			
56000	569	76 x 120	0.30	18.1	90 x 140	0.30	21.1			
68000	689	76 x 140	0.35	19.7						
82000	829	90 x 140	0.40	22.1						

Maximum Allowable Ripple Current (A rms) at 105°C 120Hz
tanδ at 20°C 120Hz

Case Size φDxL(mm)

Voltage (Code)		200V (2D)			250V (2E)			315V (2F)		
SV		250			300			365		
Cap. (μF)	Code	Case Size	Tanδ	Ripple Current	Case Size	Tanδ	Ripple Current	Case Size	Tanδ	Ripple Current
180	187							35 x 50	0.10	0.8
220	227							35 x 50	0.10	0.9
270	277				35 x 50	0.15	0.8	35 x 50	0.10	1.0
330	337	35 x 50	0.15	0.9	35 x 50	0.15	0.9	35 x 50	0.10	1.1
390	397	35 x 50	0.15	1.0	35 x 50	0.15	1.0	35 x 50	0.10	1.2
470	477	35 x 50	0.15	1.1	35 x 50	0.15	1.1	35 x 60	0.10	1.4
560	567	35 x 50	0.15	1.2	35 x 50	0.15	1.2	35 x 60	0.10	1.5
680	687	35 x 50	0.15	1.3	35 x 60	0.15	1.4	35 x 80	0.10	1.7
820	827	35 x 50	0.15	1.4	35 x 80	0.15	1.6	35 x 80	0.15	1.7
1000	108	35 x 60	0.15	1.7	35 x 80	0.20	1.6	35 x 100	0.15	2.0
1200	128	35 x 60	0.15	1.9	35 x 80	0.20	1.8	35 x 120	0.15	2.4
1500	158	35 x 80	0.15	2.3	35 x 100	0.20	2.1	51 x 80	0.15	2.7
1800	188	35 x 80	0.15	2.5	35 x 120	0.20	2.5	51 x 100	0.15	3.3
2200	228	35 x 100	0.15	3.0	51 x 80	0.20	2.9	51 x 120	0.15	4.0
2700	278	35 x 120	0.15	3.6	51 x 100	0.20	3.5	51 x 120	0.15	4.4
3300	338	51 x 80	0.15	4.1	51 x 120	0.20	4.2	63.5 x 100	0.15	5.1
3900	398	51 x 100	0.15	4.9	51 x 120	0.20	4.6	63.5 x 120	0.15	6.0
4700	478	63.5 x 100	0.20	5.3	63.5 x 120	0.20	5.7	76 x 100	0.15	6.8
5600	568	63.5 x 100	0.20	5.8	63.5 x 120	0.20	6.3	76 x 120	0.15	8.0
6800	688	63.5 x 120	0.20	6.9	76 x 120	0.20	7.7	76 x 130	0.15	9.2
8200	828	63.5 x 120	0.20	7.6	76 x 120	0.20	8.4	90 x 140	0.15	11.4
10000	109	76 x 120	0.20	9.3	76 x 140	0.20	10.0	90 x 140	0.15	12.6
12000	129	76 x 120	0.20	10.2	90 x 140	0.20	11.9			
15000	159	76 x 140	0.20	12.2						
18000	189	90 x 140	0.25	13.1						

Maximum Allowable Ripple Current (A rms) at 105°C 120Hz
tanδ at 20°C 120Hz

Case Size φDxL(mm)

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WT

Large Can Aluminum Electrolytic Capacitors

Screw Terminal Type(螺釘型), Standard(標準品)

STANDARD RATINGS

Voltage (Code)		350V (2V)			400V (2G)			450V (2W)		
SV		400			450			500		
Cap.(μF)	Code	Case Size	Tanδ	Ripple Current	Case Size	Tanδ	Ripple Current	Case Size	Tanδ	Ripple Current
470	477							51 x 80	0.15	1.4
680	687							51 x 80	0.15	1.6
1000	108				51 x 80	0.15	2.2	51 x 80	0.15	1.8
1200	128	51 x 80	0.15	2.4	51 x 80	0.15	2.5			
1500	158	51 x 80	0.15	2.8	51 x 115	0.15	3.0	51 x 115	0.15	3.5
1800	188	51 x 105	0.15	3.2						
2200	228	51 x 115	0.15	3.8	63.5 x 95	0.15	4.0	63.5 x 115	0.15	5.0
2700	278	63.5 x 95	0.15	4.5				76 x 100	0.15	5.8
3300	338				63.5 x 115	0.15	5.0	76 x 100	0.15	6.5
3900	398	76 x 90	0.15	6.0						
4700	478				76 x 115	0.15	7.0	76 x 130	0.15	8.0
5600	568	76 x 130	0.15	8.3	76 x 140	0.15	8.5	76 x 155	0.15	9.0
6800	688	76 x 140	0.15	9.5	90 x 130	0.15	10.0	90 x 155	0.15	10.5
8200	828	90 x 140	0.15	11.4				90 x 195	0.15	13.0
10000	109							90 x 195	0.15	14.0
12000	129							90 x 230	0.15	15.7
15000	159							90 x 250	0.15	18.2

Maximum Allowable Ripple Current (A rms) at 105°C 120Hz
tanδ at 20°C 120Hz

Case Size φDxL(mm)

Voltage (Code)		500V (2H)							
SV		550							
Cap.(μF)	Code	Case Size	Tanδ	Ripple Current					
330	337	51 x 80	0.15	1.1					
470	477	51 x 80	0.15	1.3					
680	687	51 x 105	0.15	1.8					
1000	108	51 x 115	0.15	2.1					
1500	158	63.5 x 115	0.15	3.0					
2200	228	63.5 x 130	0.15	3.7					
2700	278	63.5 x 150	0.15	4.4					
		76 x 115	0.15	4.4					
3300	338	63.5 x 170	0.15	5.2					
		76 x 155	0.15	5.2					
3900	398	76 x 155	0.15	5.8					
4700	478	76 x 190	0.15	6.9					
		90 x 155	0.15	6.9					
5600	568	90 x 155	0.15	7.2					
6800	688	90 x 170	0.15	8.3					
8200	828	90 x 220	0.15	10.2					
10000	109	90 x 250	0.15	12.0					

Maximum Allowable Ripple Current (A rms) at 105°C 120Hz
tanδ at 20°C 120Hz

Case Size φDxL(mm)

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