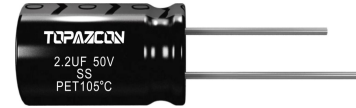


SS Series

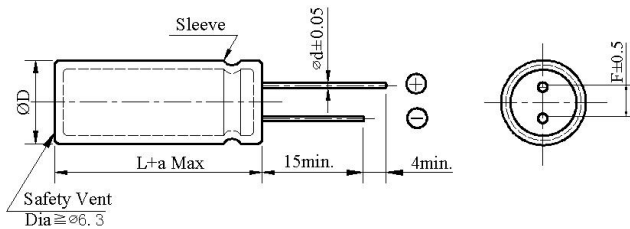
- Low profile with 7mm height
- Load life 2,000 hours at 105°C
- RoHS Compliant



SPECIFICATIONS

Item	Performance Characteristics																											
Category Temperature Range	-40 ~ +105℃																											
Working Voltage Range	6.3 ~ 50Vdc																											
Capacitance Range	0.1 ~ 220 μF																											
Capacitance Tolerance	±20% (at 20℃ and 120Hz)																											
Dissipation Factor (tanδ) (at 20℃, 120Hz)	<table><tr><td>Rated Voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>Tanδ(Max)</td><td>0.22</td><td>0.19</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td></tr></table>							Rated Voltage (V)	6.3	10	16	25	35	50	Tanδ(Max)	0.22	0.19	0.16	0.14	0.12	0.10							
Rated Voltage (V)	6.3	10	16	25	35	50																						
Tanδ(Max)	0.22	0.19	0.16	0.14	0.12	0.10																						
Leakage Current	I≤0.01CV or 3uA, whichever is greater. I : Leakage current (μA) C : Rated capacitance (μF) V : Rated voltage (V) Impress the rated voltage for 2 minutes																											
Low Temperature Characteristics Impedance Ratio(MAX)	<table><tr><td>Rated Voltage (V)</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td></tr><tr><td>Z(-25℃)/Z(+20℃)</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td></tr><tr><td>Z(-40℃)/Z(+20℃)</td><td>8</td><td>5</td><td>4</td><td>3</td><td>3</td><td>3</td></tr></table> (at 120Hz)							Rated Voltage (V)	6.3	10	16	25	35	50	Z(-25℃)/Z(+20℃)	4	3	2	2	2	2	Z(-40℃)/Z(+20℃)	8	5	4	3	3	3
Rated Voltage (V)	6.3	10	16	25	35	50																						
Z(-25℃)/Z(+20℃)	4	3	2	2	2	2																						
Z(-40℃)/Z(+20℃)	8	5	4	3	3	3																						
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 2,000 hours at 105℃. <table><tr><td>Capacitance change</td><td>≒ ±20% of the initial value</td></tr><tr><td>Dissipation factor(tanδ)</td><td>≒ 200% of the specified value</td></tr><tr><td>Leakage current</td><td>≒ specified value</td></tr></table>							Capacitance change	≒ ±20% of the initial value	Dissipation factor(tanδ)	≒ 200% of the specified value	Leakage current	≒ specified value															
Capacitance change	≒ ±20% of the initial value																											
Dissipation factor(tanδ)	≒ 200% of the specified value																											
Leakage current	≒ specified value																											
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 20℃ after the rated voltage applied for 500 hours at 105℃ without voltage applied. <table><tr><td>Capacitance change</td><td>≒ ±20% of the initial value</td></tr><tr><td>Dissipation factor(tanδ)</td><td>≒ 200% of the specified value</td></tr><tr><td>Leakage current</td><td>≒ 200% of the specified value</td></tr></table>							Capacitance change	≒ ±20% of the initial value	Dissipation factor(tanδ)	≒ 200% of the specified value	Leakage current	≒ 200% of the specified value															
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Leakage current	≒ 200% of the specified value																											

DIMENSIONS (mm)



ΦD	4	5	6.3	8
ΦD	ΦD +0.5 Max			
Φd	0.45	0.45	0.5	0.5
F	1.5	2.0	2.5	3.5
a	L+2 Max			

PART NUMBER SYSTEM(Example : 50V 2.2 μ F)

E	S	S	1	H	2	R	2	M	0	4	0	7	0	0	B
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Sleeve code(Black)	B
Lead length code	00
Lead forming Type code	07
Size code(0407 : 4×7)	0407
Capacitance tolerance code(M: $\pm 20\%$)	M
Capacitance code (2.2 μ F)	22
Voltage code(50V)	50
Series code(SS)	SS
Category code(E)	E

SS Series

◆ Standard Ratings

WV (Vdc)	Cap (μF)	Case Size ΦD×L (mm)	Max.Rated ripple current mA _{rms} @105°C 120Hz
6.3	22	4×7	28
	33	4×7	32
	33	5×7	35
	47	5×7	47
	68	5×7	50
	100	6.3×7	75
	220	8×7	92
10	22	4×7	32
	33	5×7	68
	47	5×7	51
	68	6.3×7	68
	100	6.3×7	80
	100	8×7	95
	220	8×7	130
16	4.7	4×7	20
	10	4×7	28
	22	4×7	35
	22	5×7	42
	33	5×7	50
	47	6.3×7	67
	100	8×7	110
	220	8×7	150
25	4.7	4×7	17
	6.8	4×7	19
	10	4×7	28
	10	5×7	33
	22	5×7	43
	22	6.3×7	45
	33	6.3×7	62
	47	8×7	75
	68	8×7	80
	100	8×7	115

WV (Vdc)	Cap (μF)	Case Size ΦD×L (mm)	Max.Rated ripple current mA _{rms} @105°C 120Hz
35	4.7	4×7	22
	6.8	4×7	24
	6.8	5×7	28
	10	5×7	35
	22	6.3×7	60
	33	6.3×7	50
	33	8×7	68
	47	8×7	80
	68	8×7	85
50	0.1	4×7	1.5
	0.22	4×7	2.5
	0.33	4×7	3.5
	0.47	4×7	5.0
	0.68	4×7	7.0
	1	4×7	10
	2.2	4×7	20
	3.3	4×7	26
	4.7	4×7	27
	4.7	5×7	29
	10	6.3×7	38
	22	8×7	63
	33	8×7	78

◆ RIRIPPLE CURRENT MULTIPLIERS Frequency Multipliers

Vdc	Frequency (Hz)			
	50/60	120	1K	≥10K
6.3 ~ 16	0.80	1.00	1.30	1.50
25 ~ 35	0.80	1.00	1.20	1.20
50	0.80	1.00	1.15	1.20