

## ST Series 5 mm 105°C



### Features

- ◆ 5.0+1 mm max height
- ◆ Endurance 105°C, 1000 hrs assured
- ◆ RoHS Compliant

### Specifications

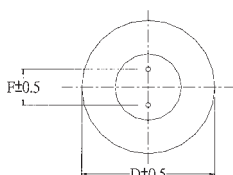
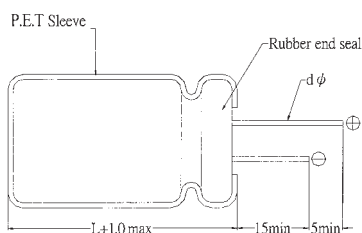
Item	Performance Characteristics							
Operating Temperature Range	-40 to +105°C							
Rated Voltage Range	4 to 50 VDC							
Capacitance Range	0.1 to 220 μF							
Capacitance Tolerance	±20% (120Hz, +20°C)							
Leakage Current(+20°C, max)	I ≤ 0.01 CV or 3 (μA) After 2 minute, whichever is greater measured with rated working voltage applied.							
Dissipation Factor (tan δ , at 20°C , 120Hz)	Rated Voltage(VDC)	4	6.3	10	16	25	35	50
	D.F. (%)max.	35	24	20	16	14	12	10
Low Temperature Characteristics (at 120Hz)	Impedance ratio max							
	Rated Voltage(VDC)	4	6.3	10	16	25	35	50
	Z-25°C / Z+20°C	6	3	3	2	2	2	2
	Z-40°C / Z+20°C	12	8	5	4	3	3	3
Endurance	Test conditions							
	Duration time	:1000 Hrs						
	Ambient temperature	:+105°C						
	Applied voltage	:Rated DC working voltage						
	After test requirement at +20°C							
	Capacitance change	: ≤ ±20% of the initial measured value (4V : ≤ ±30%)						
Dissipation factor	: ≤ 200% of the initial specified value							
Leakage current	: ≤ The initial specified value							
Shelf Life	Test conditions							
	Duration time	:1000 Hrs						
	Ambient temperature	:+105°C						
	Applied voltage	:None						
After test requirement at +20°C : Same limits as Endurance.								
Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.								

Radial

### Multiplier for Ripple Current vs. Frequency

Frequency(Hz) \ CAP( μ F)	50(60)	120	1K	≥10K
0.1~47 μ F	0.8	1	1.30	1.5
100~220 μ F	0.8	1	1.15	1.2

### Diagram of Dimensions:(unit:mm)



D φ	4	5	6.3	8
F	1.5±0.5	2.0±0.5	2.5±0.5	3.5±0.5
d φ	0.45			

## Case Size

WV (Vdc)	Cap (µF)	Size (mm)	Rated Ripple current (mA <sub>rms</sub> /105°C /120Hz)
4	10	4x5	10
4	15	4x5	13
4	22	4x5	22
4	33	5x5	30
4	47	5x5	36
4	68	6.3x5	52
4	100	6.3x5	60
4	220	6.3x5	80
6.3	10	4x5	12
6.3	15	4x5	15
6.3	22	4x5	22
6.3	33	5x5	30
6.3	47	5x5	36
6.3	68	6.3x5	52
6.3	100	6.3x5	60
6.3	220	6.3x5	80
10	6.8	4x5	11
10	10	4x5	15
10	15	4x5	18
10	22	5x5	27
10	33	5x5	35
10	47	6.3x5	48
10	68	6.3x5	53
10	100	8x5	65
10	220	8x5	83
16	4.7	4x5	9
16	6.8	4x5	13
16	10	4x5	18
16	15	5x5	23
16	22	5x5	30
16	33	6.3x5	45
16	47	6.3x5	50
16	68	8x5	55
16	100	8x5	68

WV (Vdc)	Cap (µF)	Size (mm)	Rated Ripple current (mA <sub>rms</sub> /105°C /120Hz)
25	3.3	4x5	9
25	4.7	4x5	13
25	6.8	4x5	15
25	10	5x5	23
25	15	6.3x5	32
25	22	6.3x5	39
25	33	6.3x5	48
25	47	6.3x5	50
25	47	8x5	55
35	2.2	4x5	8
35	3.3	4x5	11
35	4.7	4x5	15
35	6.8	5x5	19
35	10	5x5	25
35	15	6.3x5	32
35	22	6.3x5	48
35	33	8x5	50
50	0.1	4x5	2
50	0.15	4x5	2
50	0.22	4x5	3
50	0.33	4x5	3
50	0.47	4x5	4
50	0.68	4x5	5
50	1	4x5	6
50	1.5	4x5	7
50	2.2	4x5	11
50	3.3	4x5	14
50	4.7	5x5	19
50	6.8	5x5	22
50	6.8	6.3x5	25
50	10	6.3x5	30
50	15	8x5	35
50	22	8x5	50