

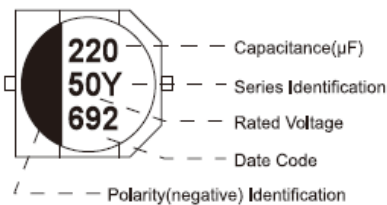


- Endurance: 105°C, 1000~2000 hours
- Recommended Applications: Suitable for AV(TV,Video,Audio),Monitor/Computer, Battery charger,DC/DC converter,SMPS,Noise filter
- Corresponding product to RoHS

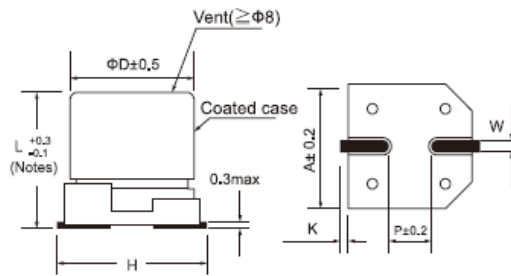
**Specifications**

Item	Characteristics																												
Category Temperature Range	-55 ~ +105°C																												
Rated Voltage Range	6.3~ 50VDC																												
Rated Capacitance Range	1 ~ 1500 $\mu$ F																												
Capacitance Tolerance	$\pm$ 20 % at 120Hz , 20°C																												
Leakage Current (20°C)	$I \leq 0.01CV$ or $3 \mu A$ ,whichever is greater. (After rated voltage applied for 2 minutes) I : Max. leakage current ( $\mu A$ ), C : Nominal capacitance ( $\mu F$ ), V : Rated voltage (V)																												
Dissipation Factor(MAX) (tan $\delta$ ) (120Hz ,20°C)	Shown in the table of standard rating																												
Low Temperature Stability Impedance Ratio (MAX)	<table border="1"> <thead> <tr> <th>WV</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Z(120HZ)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Z(-25°C) / Z(20°C)</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C) / Z(20°C)</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table>	WV	6.3	10	16	25	35	50	Z(120HZ)							Z(-25°C) / Z(20°C)	2	2	2	2	2	2	Z(-40°C) / Z(20°C)	4	4	3	3	3	3
WV	6.3	10	16	25	35	50																							
Z(120HZ)																													
Z(-25°C) / Z(20°C)	2	2	2	2	2	2																							
Z(-40°C) / Z(20°C)	4	4	3	3	3	3																							
Endurance	After applying rated voltage for 1000hrs at 105°C ,Stay back to 20 °C temperature measurement,the capacitors shall meet the following requirements.																												
	Capacitance Change	6.3VF Within $\pm$ 30% of the initial value,10-50VF Within $\pm$ 20% of the initial value																											
	Dissipation Factor	Not more than 200% of the specified value																											
	Leakage Current	Not more than the specified value																											
		<table border="1"> <tr> <td>D<math>\Phi</math></td> <td>4x5.4~6.3x7.7</td> <td>8x10.2~10x10.2</td> </tr> <tr> <td>Life</td> <td>1000hrs</td> <td>2000hrs</td> </tr> </table>	D $\Phi$	4x5.4~6.3x7.7	8x10.2~10x10.2	Life	1000hrs	2000hrs																					
D $\Phi$	4x5.4~6.3x7.7	8x10.2~10x10.2																											
Life	1000hrs	2000hrs																											
Shelf Life	After placed at 105°C without voltage applied for 1000 hours,Stay back to 20 °C temperature measurement, the capacitor shall meet the same requirement as Endurance.																												

**MARKING**



**Dimensions [mm]**



( Notes )  $\Phi 8 \sim \Phi 10 \& 6.3 \times 7.7 = L \pm 0.3$

Dimensions	$\Phi D$	L	A	H	W	P	K
B01	4.0	5.4	4.3	5.5 Max	0.65 $\pm$ 0.1	1.0	0.35+0.15/-0.2
C01	5.0	5.4	5.3	6.5 Max	0.65 $\pm$ 0.1	1.5	0.35+0.15/-0.2
E01	6.3	5.4	6.6	7.8 Max	0.65 $\pm$ 0.1	1.8	0.35+0.15/-0.2
E04	6.3	7.7	6.6	7.8 Max	0.65 $\pm$ 0.1	1.8	0.35+0.15/-0.2
G03	8.0	10.2	8.3	10.0 Max	0.90 $\pm$ 0.2	3.1	0.70 $\pm$ 0.20
H03	10.0	10.2	10.3	12.0 Max	0.90 $\pm$ 0.2	4.6	0.70 $\pm$ 0.20

**Multiplier for Ripple Current**

Frequency (Hz)	120	1K	10K	100K
Coefficient	0.70	0.80	0.90	1.00

■ STANDARD RATINGS

Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	tan δ	Ripple current (mA/rms 105°C 100KHz)	Impedance (Ω,20°C) (100KHz)	Rated Voltage (SurageVoltage) (V)	Cap (μ F)	Case size Φ DxL(mm)	tan δ	Ripple current (mA/rms 105°C 100KHz)	Impedance (Ω,20°C) (100KHz)
6.3(8)	22	4x5.4	0.26	60	3.0	25(32)	22	6.3x5.4	0.14	140	1.0
	33	5x5.4	0.26	95	1.8		33	6.3x5.4	0.14	140	1.0
	47	5x5.4	0.26	95	1.8		47	6.3x5.4	0.14	140	1.0
	100	6.3x5.4	0.26	140	1.0		68	6.3x7.7	0.14	280	0.3
	220	6.3x5.4	0.26	140	1.0		100	6.3x7.7	0.14	280	0.3
	330	6.3x7.7	0.26	280	0.3		220	8x10.2	0.16	450	0.3
	470	8x10.2	0.35	450	0.3		330	8x10.2	0.16	450	0.3
	680	8x10.2	0.35	450	0.3		470	10x0.2	0.16	670	0.15
	1000	8x0.2	0.35	450	0.3		35(44)	4.7	4x5.4	0.12	60
1500	10x10.2	0.35	670	0.15	10	5x5.4		0.12	95	1.8	
10(13)	22	5x5.4	0.22	95	1.8	22		6.3x5.4	0.12	140	1.0
	33	5x5.4	0.22	95	1.8	33		6.3x5.4	0.12	140	1.0
	47	6.3x5.4	0.22	140	1.0	47		6.3x5.4	0.12	140	1.0
	100	6.3x5.4	0.22	140	1.0	68		6.3x7.7	0.12	280	0.34
	220	6.3x7.7	0.22	280	0.3	100		8x10.2	0.14	450	0.3
	330	8x10.2	0.26	450	0.3	220		8x10.2	0.14	450	0.3
	470	8x10.2	0.26	450	0.3	330		10x10.2	0.14	670	0.15
	680	10x10.2	0.26	670	0.15	50(63)	1	4x5.4	0.12	30	5.0
	1000	10x10.2	0.26	670	0.15		2.2	4x5.4	0.12	30	5.0
16(20)	10	4x5.4	0.16	60	3.0		3.3	4x5.4	0.12	30	5.0
	22	5x5.4	0.16	95	1.8		4.7	5x5.4	0.12	50	3.0
	33	6.3x5.4	0.16	140	1.0		10	6.3x5.4	0.12	70	2.0
	47	6.3x5.4	0.16	140	1.0		22	6.3x5.4	0.12	70	2.0
	100	6.3x5.4	0.16	140	1.0		33	6.3x7.7	0.12	170	1.3
	220	6.3x7.7	0.16	280	0.34		47	6.3x7.7	0.12	170	1.3
	330	8x10.2	0.20	450	0.3		68	8x10.2	0.12	300	0.6
	470	8x10.2	0.20	450	0.3		100	8x10.2	0.12	300	0.6
	680	10x10.2	0.20	670	0.15		220	10x10.2	0.12	500	0.3
25(32)	10	5x5.4	0.14	95	1.8						