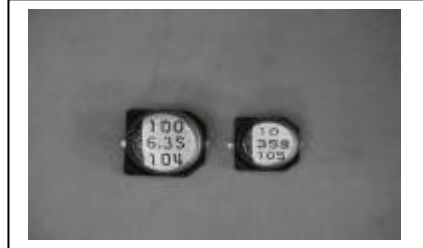


SV Series

Features
 Lifetime: 105, 1000hrs
 Wide temperature range for GV
 Low profile vertical chip

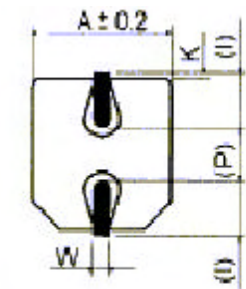
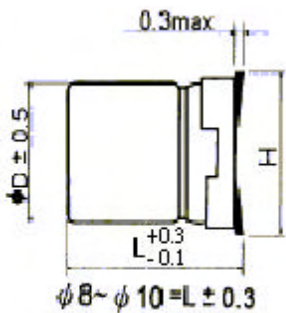
Recommended Applications
 AV(TV, Video, Audio)
 Monitor/Computer
 OA/HA/Communication



Specifications

Items	Characteristics							
Capacitance Tolerance	± 20% (M) (120Hz, 20)							
Rated Voltage Range (WV)	4~50 VDC							
Operating Temperature Range	-40 ~ +105							
Surge Voltage (V) (20)	WV	4	6.3	10	16	25	35	50
	SV	5	8	13	20	32	44	63
Leakage Current (Max) (20)	I = 0.01CV or 3 µ A whichever is greater (After rated voltage applied for 2 minutes)							
	I = Leakage Current (µ A) C = Nominal Capacitance (µ F) V = Rated Voltage (V)							
Dissipation Factor (Max) (tan) (120Hz, 20)	Shown in the table of standard rating							
Low Temperature Stability Impedance Ratio (Max)	WV	4	6.3	10	16	25	35	50
	Z(120Hz)							
	Z(-25) / Z(20)	7	4	3	2	2	2	2
	Z(-40) / Z(20)	15	8	6	4	4	3	3
Load Life	After applying rated voltage for 1000 hours at 105 , the capacitor shall meet the following requirement.							
	Capacitance Change	Within ± 20% of the initial value						
	Dissipation Factor	Not more than 200% of the specified value						
	Leakage Current	Not more than the specified value						
Shelf Life	After placed at 105 without voltage applied for 1000 hours, the capacitor shall meet the same requirement as load life .							
Applicable standards	Refer to JIS C 5101							

Dimensions (mm)



() : Reference size

D	L	A	H	I	W	P	K
4.0	5.4	4.3	5.5 Max	1.8	0.65 ± 0.1	1.0 ± 0.2	0.35 ^{+0.15} / _{-0.20}
5.0	5.4	5.3	6.5 Max	2.2	0.65 ± 0.1	1.5 ± 0.2	0.35 ^{+0.15} / _{-0.20}
6.3	5.4	6.6	7.8 Max	2.6	0.65 ± 0.1	1.8 ± 0.2	0.35 ^{+0.15} / _{-0.20}
8.0	6.2	8.3	9.5 Max	3.4	0.65 ± 0.1	2.2 ± 0.2	0.35 ^{+0.15} / _{-0.20}
8.0	10.2	8.3	10.0 Max	3.4	0.90 ± 0.2	3.1 ± 0.2	0.70 ± 0.2
10.0	10.2	10.3	12.0 Max	3.5	0.90 ± 0.2	4.6 ± 0.2	0.70 ± 0.2

Multiplier for Ripple Current

Frequency coefficient

Frequency (Hz)	60	120	1K	10K~100K
Coefficient	0.85	1.00	1.15	1.25

Temperature coefficient

Ambient Temperature ()	50	70	85	105
Coefficient	1.90	1.75	1.40	1.00

Case Size / tan / Max Ripple Current / ESR

CASE SIZE (DxL(mm)) / MAX DISSIPATION FACTOR (tan / 120Hz,20) / MAX PERMISSIBLE RIPPLE CURRENT (RC(mArms) / 120Hz, 105) / MAX EQUIVALENT SERIES RESISTANCE (ESR() / 120Hz,20)

WV	4				6.3				10				16			
SPEC μF	DxL	tan	RC	ESR	DxL	tan	RC	ESR	DxL	tan	RC	ESR	DxL	tan	RC	ESR
4.7													4x5.4	0.16	20	45.1
10									4x5.4	0.30	24	39.7	4x5.4	0.16	28	21.2
22	4x5.4	0.35	20	21.1	4x5.4	0.30	29	18.0	4x5.4	0.30	36	18.0	5x5.4	0.16	39	9.64
33	4x5.4	0.35	26	14.0	4x5.4	0.30	43	12.0	4x5.4	0.30	45	12.0	6.3x5.4	0.20	65	8.03
47	4x5.4	0.35	34	9.87	5x5.4	0.30	46	8.46	6.3x5.4	0.30	70	8.46	6.3x5.4	0.20	70	5.64
100	5x5.4	0.35	61	4.64	6.3x5.4	0.35	71	4.64	8x6.2	0.30	110	3.97	8x6.2	0.20	130	2.65
220	6.3x5.4	0.35	82	2.11	8x6.2	0.35	130	2.11	8x10.2	0.26	160	1.80	10x10.2	0.20	210	1.20
330					8x10.2	0.35	230	1.40	10x10.2	0.26	230	1.04	10x10.2	0.20	230	0.803
470					10x10.2	0.35	260	0.987	10x10.2	0.26	270	0.733	10x10.2	0.20	275	0.564
1000					10x10.2	0.35	380	0.464	10x10.2	0.26	390	0.344				

WV	25				35				50			
SPEC μF	DxL	tan	RC	ESR	DxL	tan	RC	ESR	DxL	tan	RC	ESR
0.1									4x5.4	0.12	1	1593
0.22									4x5.4	0.12	2	723
0.33									4x5.4	0.12	3	482
0.47									4x5.4	0.12	5	338
1									4x5.4	0.12	10	159
2.2					4x5.4	0.12	15	72.3	4x5.4	0.12	16	72.3
3.3					4x5.4	0.12	18	48.2	4x5.4	0.12	16	48.2
4.7	4x5.4	0.14	22	39.5	4x5.4	0.12	22	33.8	5x5.4	0.12	23	33.8
10	5x5.4	0.14	28	18.5	5x5.4	0.12	30	15.9	6.3x5.4	0.12	35	15.9
22	6.3x5.4	0.14	55	8.44	6.3x5.4	0.14	60	8.44	8x6.2	0.12	70	7.23
33	6.3x5.4	0.16	65	6.43	8x6.2	0.14	84	5.62	8x10.2	0.12	91	4.82
47	8x6.2	0.16	91	4.51	8x10.2	0.14	98	3.95	10x10.2	0.12	100	3.38
100	8x10.2	0.16	130	2.12	10x10.2	0.14	160	1.85	10x10.2	0.12	145	1.59
220	10x10.2	0.16	273	0.964	10x10.2	0.14	240	0.844				