

SH Series

Features
 Lifetime: 105 ,1000hrs
 Wide temperature range for SL
 Low leakage current
 Low profile/Miniature
 7mm height

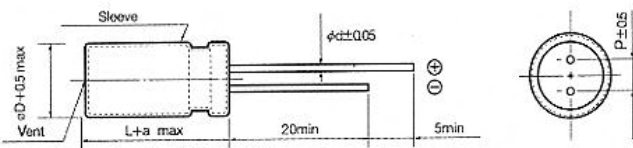
Recommended Applications
 AV(TV, Video, Audio)
 OA/HA/Communication
 Hi- Fi Pre-Amp
 Timer/Oscillation circuit



Specifications

Items	Characteristics									
Capacitance Tolerance	$\pm 20\%$ (M) (120Hz, 20)									
Rated Voltage Range (WV)	4~63 VDC									
Operating Temperature Range	-40 ~ +105									
Surge Voltage (V) (20)	WV	4	6.3	10	16	25	35	50	63	
	SV	5	8	13	20	32	44	63	79	
Leakage Current (Max) (20)	I = 0.002CV or 0.4 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)	WV	4	6.3	10	16	25	35	50	63	
	tan	0.35	0.24	0.20	0.16	0.14	0.12	0.10	0.08	
Low Temperature Stability Impedance Ratio (Max)	WV		4	6.3	10	16	25	35	50	63
	Z (120Hz)		4	6.3	10	16	25	35	50	63
	Z(-25) / Z(20)		6	4	3	2	2	2	2	2
Z(-40) / Z(20)		12	8	6	4	4	3	3	3	
Load Life	After applying rated voltage for 1000 hours at 105 , the capacitor shall meet the following requirement.									
	Capacitance Change			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						
Shelf Life	After placed at 105 without voltage applied for 500 hours, the capacitor shall meet the same requirement as load life.									
Applicable standards	Refer to JIS C 5101									

Dimensions (mm)



D	4	5	6.3	8
P	1.5	2.0	2.5	3.5
d	0.45	0.5	0.5	0.5
a	1.0	1.0	1.0	1.0

Multiplier for Ripple Current

Frequency coefficient

Freq. (Hz)	50	120	1K	10K
WV (VDC)				
4~10	0.80	1.00	1.10	1.20
16~25	0.80	1.00	1.20	1.30
35~63	0.80	1.00	1.50	1.70

Temperature coefficient

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

Case Size / Max Ripple Current

CASE SIZE (DxL(mm)) / MAX PERMISSIBLE RIPPLE CURRENT (RC(mArms) / 120Hz,105)

WV	4		6.3		10		16		25		35	
SPEC μF	DxL	RC	DxL	RC	DxL	RC	DxL	RC	DxL	RC	DxL	RC
4.7											4x7	20
10					4x7	25	4x7	25	4x7	25	5x7	30
22	4x7	25	4x7	30	4x7	35	4x7	35	5x7	45	6.3x7	45
33	4x7	35	4x7	40	5x7	40	5x7	50	5x7	55	6.3x7	60
47	4x7	40	5x7	45	6.3x7	50	6.3x7	55	6.3x7	70		
100	5x7	70	5x7	75	6.3x7	80	6.3x7	85				
220	6.3x7	115	6.3x7	125	8x7	150						

WV	50		63	
SPEC μF	DxL	RC	DxL	RC
0.1	4x7	1	4x7	1
0.22	4x7	2	4x7	2
0.33	4x7	3	4x7	3
0.47	4x7	5	4x7	5
1	4x7	15	4x7	15
2.2	4x7	20	4x7	20
3.3	4x7	20	5x7	25
4.7	5x7	25	6.3x7	30
10	6.3x7	40		