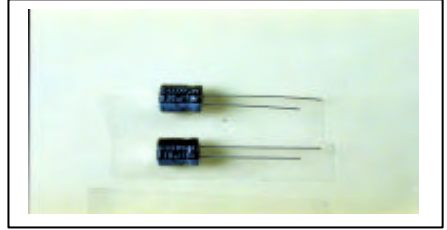


SX Series

Features
 Lifetime: 105 , 1000hrs
 Wide temperature range
 for SS
 Low profile/Miniature
 7mm/9mm height

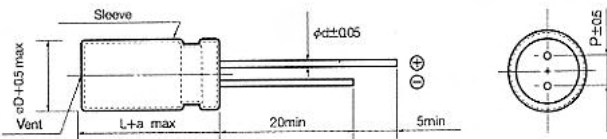
Recommended Applications
 AV(TV, Video, Audio)
 Monitor/Computer
 OA/HA/Communication
 Small signal



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)	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) (20)									
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)									
	Z(-25) / Z(20)		6	4	3	2	2	2	2	2
Z(-40) / Z(20)		12	8	6	4	4	4	4	4	
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	Satisfied 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 (0.6)
a	1.0	1.0	1.0	1.0

() : L = 9

Multiplier for Ripple Current

Frequency coefficient

Freq. (Hz)	50	120	1K	10K
WV (VDC)				
4~16	0.80	1.00	1.10	1.20
25~35	0.80	1.00	1.50	1.70
50~63	0.80	1.00	1.60	1.90

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 μ F	DxL	RC	DxL	RC	DxL	RC	DxL	RC	DxL	RC	DxL	RC
2.2							4x7	10				
3.3							4x7	10				
4.7							4x7	15	4x7	20	4x7	25
10							4x7	25	4x7	30	4x7	35
22					4x7	30	4x7	35	5x7	50	6.3x7	60
33	4x7	30	4x7	35	4x7	40	5x7	50	6.3x7	65	6.3x7	70
47	4x7	35	5x7	50	5x7	60	6.3x7	70	6.3x7	70	8x7	80
100	5x7	55	5x7	70	6.3x7	90	8x7	110	8x7	115	8x9	145
220	6.3x7	95	6.3x7	110	8x7	135	8x9	180				
330			8x7	150	8x9	160	8x9	210				
470			8x9	200	8x9	210						

WV	50		63	
SPEC μ F	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	10	4x7	10
2.2	4x7	20	4x7	20
3.3	4x7	25	4x7	25
4.7	4x7	30	5x7	35
10	5x7	40	6.3x7	50
22	6.3x7	65		
33	8x7	80		
47	8x9	100		