

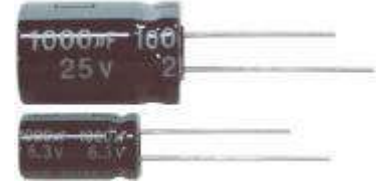
SY

105 ,Low Impedance & Long Life
Series

SC

Long Life

SY



Used switching regulator applications in computers. Especially for high frequency.

Low impedance and E.S.R , high permissible ripple current at high frequency and high operating temperature (-40 ~ +105)

Specifications

Item	Characteristics						
Category Temperature Range	-40 ~ +105						
Rated Voltage Range	6.3 ~ 50V						
Rated Capacitance Range	4.7 ~ 15000 μ F						
Capacitance Tolerance	\pm 20% at 120Hz , 25						
Leakage Current (MAX)	$I=0.01CV$ or 3μ A ,whichever is greater. (After 2 minutes application of rated voltage at 25)						
Dissipation Factor (MAX)	Measurement frequency : 120Hz, Temperature : 25						
	Rated voltage(V)	6.3	10	16	25	35	50
	D.F.(%) Max	22	19	16	14	12	10
For capacitor whose capacitance exceeds 1000 μ F. The value of D.F.(%) is increased by 2% for ever addition of 1000 μ F.							
Low Temperature Stability Impedance Ratio (MAX)	Measurement frequency : 120Hz						
	Rated voltage(V)	6.3	10	16	25	35	50
	Z-25 / Z+20	4	3	2	2	2	2
Z-40 / Z+20	8	6	4	3	3	3	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 25 after subjected to DC voltage with the rated ripple current is applied for the specified oeror of time at 105 .						
	Capacitance Change	Within \pm 25% of initial value					
	Dissipation Factor	Not more than 200% of specified value					
	Leakage Current	Not more than the specified value					
	D ϕ	5 ϕ ~ 6.3 ϕ	8 ϕ ~ 10 ϕ x12	10 ϕ x15 ~ 12 ϕ	13 ϕ ~ 18 ϕ		
Life	3000 hrs	4000 hrs	5000 hrs	6000 hrs			
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 25 after exposing them for 1000 hrs at 105 without voltage applied.						
	Capacitance Change	Within \pm 25% of initial value					
	Dissipation Factor	Not more than 200% of specified value					
	Leakage Current	Not more than 200% of specified value					

Multiplier for Ripple Current

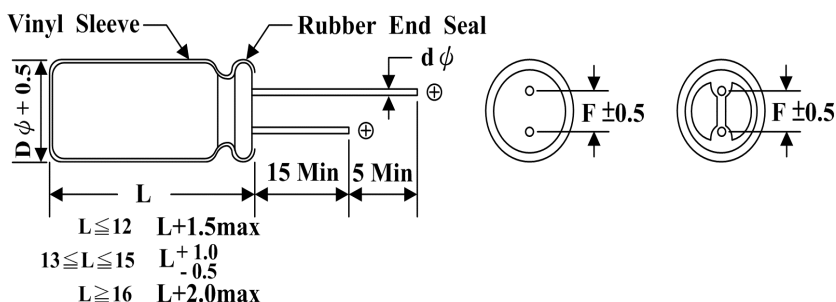
(1) Frequency coefficient

Frequency (Hz)	120	1 K	10 K	100 K
22 ~ 180 μ F	0.40	0.75	0.90	1.00
220 ~ 560 μ F	0.50	0.85	0.94	1.00
680 ~ 1800 μ F	0.60	0.87	0.95	1.00
2200 ~ 3900 μ F	0.75	0.90	0.95	1.00
4700 μ F Higher	0.85	0.95	0.98	1.00

(2)Temperature coefficient

Temperature()	65	85	105
Factor	1.80	1.50	1.00

Radial Lead Type



D ϕ	5.0	6.3	8.0	10.0	13.0
F	2.0	2.5	3.5	5.0	5.0
d ϕ	0.50	0.5	0.6	0.6	0.6

D ϕ	16.0	18.0
F	7.5	7.5
d ϕ	0.8	0.8