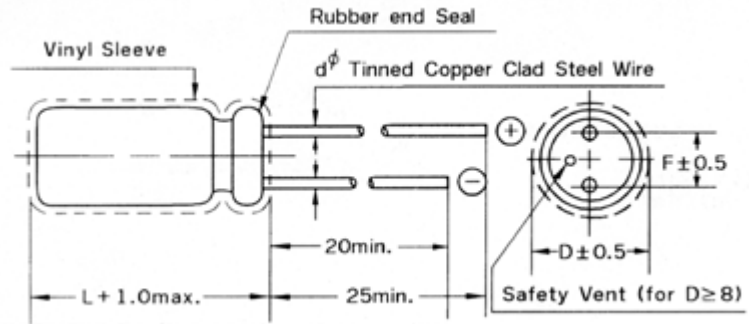


### FEATURES:

- 85 °C standard, Radial
- High performance
- Very high CV capacity per unit volume
- Ideal for automatic insertion
- Load life of 2000 hours at 85 °C



Dimensions in mm								
Dø	5	6.3	8	10	13	16	18	22
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10
dø	0.5	0.5	0.5	0.6	0.6	0.8	0.8	0.8

### SPECIFICATIONS:

ITEM	TYPE EN	
Operating Temperature Range	- 40 °C ~ + 85 °C	
Capacitance tolerance	± 20% at 120 Hz, 20 °C	
Leakage Current (I = DC Current in µA max.)	$I \leq 0.01 CV + 3 \mu A$ , measured after 3 minutes application of rated working voltage. Where, C = Rated Capacitance (µF) V = Rated Working Voltage (V DC)	
Working Voltage (DC)	6.3 V    10 V    16 V    25 V    35 V    50 V    63 V    100 V	
Surge Voltage (DC)	8 V    13 V    20 V    32 V    44 V    63 V    79 V    125 V	
Dissipation Factor (tan δ) max at 120 Hz	0.24    0.20    0.17    0.14    0.12    0.10    0.10    0.08	
(For capacitance exceeds 1,000 µF, the value of tan δ is increased by 0.02 for every additional 1000 µF)		
Impedance Ratio at Low Temperature at 120 Hz	W.V    6.3 V    10 V    16 V    25 V    35 V    50 V    63 V    100 V	
	Z@ -25 °C / Z@ +20°C	4    3    2    2    2    2    2    2    2
	Z@ -40 °C / Z@ +20°C	8    6    6    4    4    3    3    3
Load Life Test (after application of the rated voltage for 2000 hours at +85 °C)	The capacitor shall meet following limits: Capacitance Change ≤ 20% of initial value Leakage Current ≤ specified maximum value Dissipation Factor ≤ 150% of specified maximum value	
Shelf Life Test (after 1000 hours exposing at 85 °C without voltage applied)	The capacitor shall meet following limits: Capacitance Change ≤ 20% of initial value Leakage Current ≤ specified maximum value Dissipation Factor ≤ 200% of specified maximum value	

### CASE SIZE: (D x L mm) and permissible ripple current (mA rms, at 85 °C 120 Hz)

W.V.	6.3 V		10 V		16 V		25 V		35 V		50 V		63 V		100 V	
µF	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
0.1											5x11	1.5	5x11	3.0	5x11	3.0
0.22											5x11	3.5	5x11	4.5	5x11	4.5
0.33											5x11	5	5x11	7.5	5x11	7.5
0.47											5x11	6	5x11	9	5x11	9
1.0											5x11	10	5x11	15	5x11	15
2.2											5x11	19	5x11	30	5x11	30
3.3											5x11	30	5x11	38	5x11	38

4.7											5x11	41	5x11	43	5x11	46	
10							5x11	50	5x11	54	5x11	60	5x11	63	6.3x11	74	
22						5x11	70	5x11	75	5x11	80	5x11	90	6.3x11	100	8x11	125
33						5x11	87	5x11	92	5x11	100	6.3x11	120	6.3x11	130	10x12	180
47				5x11	92	5x11	105	5x11	110	6.3x11	130	6.3x11	140	8x11	170	10x13	228
100	5x11	125	5x11	135	6.3x11	160	6.3x11	180	8x11	220	8x11	240	10x12	260	13x21	360	
220	6.3x11	190	6.3x11	212	6.3x11	260	8x11	300	10x12	370	10x16	440	10x21	490	16x26	600	
330	6.3x11	260	6.3x11	305	8x11	345	10x12	400	10x16	500	10x21	610	13x21	620	16x26	770	
470	8x11	340	8x11	365	10x12	428	10x16	520	10x21	650	13x21	730	13x26	820	16x32	990	
1000	10x12	510	10x16	650	10x16	750	13x21	870	13x21	970	16x26	1110	16x32	1360	22x43	1700	
2200	10x21	920	10x21	1045	13x21	1060	13x26	1250	16x26	1500	18x32	1790	18x40	2110			
330	13x21	1140	13x21	1230	13x26	1450	16x26	1690	18x32	1950	22x36	2220	22x43	2554			
4700	13x26	1460	13x26	1520	16x26	1700	18x32	2040	18x36	2280	22x43	2865					
10000	16x32	2037	18x32	2260	18x36	2360											

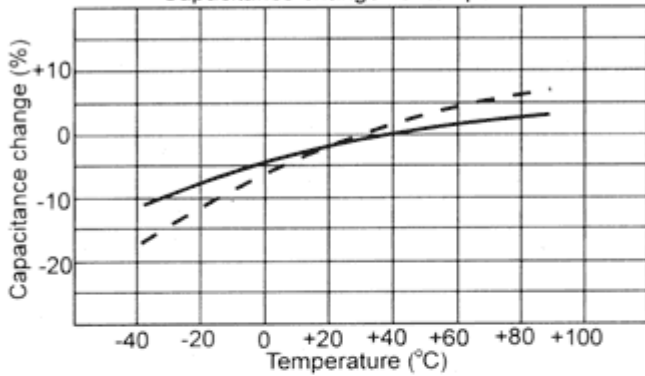
## PERFORMANCE CURVES

### TYPICAL CHARACTERISTIC CURVES

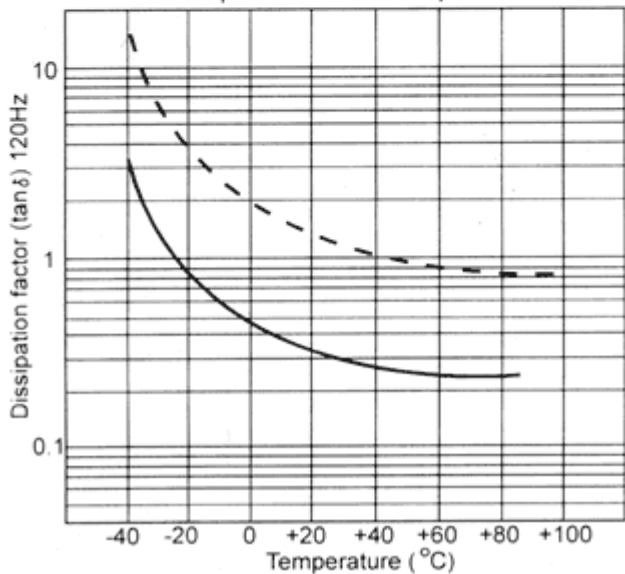
----- 1000  $\mu$ F 16V  
 \_\_\_\_\_ 1  $\mu$ F 50V

#### ⊙ TEMPERATURE CHARACTERISTICS

Capacitance change vs. temperature

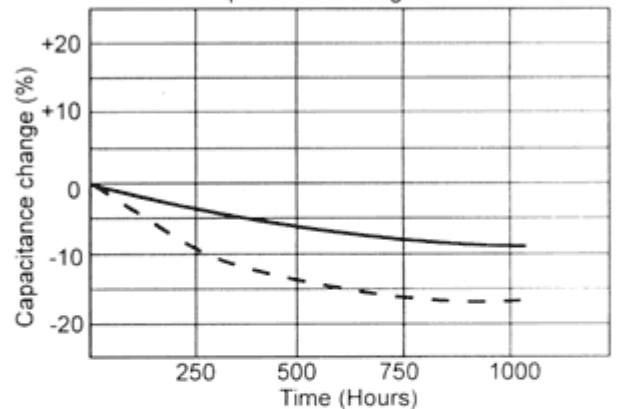


Dissipation factor vs. temperature



#### ⊙ LOAD LIFE TEST (at +85°C)

Capacitance change vs. time



Dissipation factor vs. time

