

Features

- ◆ Operating over wide temperature range
- ◆ Reflow soldering is available
- ◆ Available for high density surface mounting
- ◆ High stability and reliability



Specifications

Operating Temperature Range	-55~+105°C						
Rated Voltage Range	6.3~50V DC						
Nominal Capacitance Range	0.1~220 μF						
Capacitance Tolerance	±20% (120Hz, 20°C)						
Leakage Current(20°C)	I ≤ 0.01CRUR(μA) or 3μA, Whichever is greater (After 2 minutes)						
Dissipation Factor(120Hz, 20°C)	U _r (V)	6.3	10	16	25	35	50
	tg δ	0.28	0.20	0.16	0.14	0.12	0.12
Temperature Characteristics Impedance Ratio (120Hz)	U _r (V)	6.3	10	16	25	35	50
	Z-25°C/Z+20°C	4	3	2	2	2	2
	Z-40°C/Z+20°C	8	6	4	4	3	3
Load Life	After applying rated voltage for 1000 hours at +105°C and then resumed 16 hours. The capacitor shall meet the following limits.						
	Capacitance Change	≤ ±20% of Initial measured value					
	Leakage	≤ Initial specified value					
Shelf Life	After storage for 1000 hours at +105°C and then resumed 16 hours, the capacitor shall meet the following limits.						
	Capacitance Change	≤ ±20% of Initial measured value					
	Leakage	≤ 200% of Initial specified value					
Resistance to Soldering Heat	The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, then meet the following requirement.						
	Capacitance Change	≤ ±10% of Initial measured value					
	Leakage	≤ Initial specified value					

Nominal capacitance, rated voltage, rated ripple current and case size table

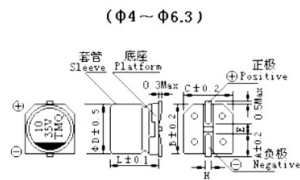
D×L (MM) μF	6.3		10		16		25		35		50	
	D×L mm	Ripple Current mA	D×L mm	Ripple Current mA	D×L mm	Ripple Current mA	D×L mm	Ripple Current mA	D×L mm	Ripple Current mA	D×L mm	Ripple Current mA
0.1											4×5.4	1.0
0.22											4×5.4	2.0
0.33											4×5.4	3.0
0.47											4×5.4	4.0
1.0											4×5.4	8.0
2.2											4×5.4	11
3.3											4×5.4	13
4.7					4×5.4	12	4×5.4	13	4×5.4	14	5×5.4	18
10					4×5.4	20	4×5.4 5×5.4	14 20	5×5.4	24	6.3×5.4	28
22	4×5.4	20	4×5.4 5×5.4	21 27	4×5.4 5×5.4	22 31	5×5.4 6.3×5.4	25 36	5×5.4 6.3×5.4	27 40	6.3×5.4	42
33	4×5.4 5×5.4	27 37	4×5.4 5×5.4	23 34	5×5.4 6.3×5.4	28 40	5×5.4 6.3×5.4	29 44	6.3×5.4	50		
47	4×5.4 5×5.4	25 37	5×5.4 6.3×5.4	30 41	5×5.4 6.3×5.4	31 56	6.3×5.4	48				
100	5×5.4 6.3×5.4	39 57	6.3×5.4	53	6.3×5.4	75						
220	6.3×5.4	67										

Rated ripple current: (mA, 105°C, 120Hz)

Frequency coefficient of rated ripple current

Frequency	50Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.70	1.00	1.17	1.36	1.50

Dimensions & Marking



Size	Φ4×5.4	Φ5×5.4	Φ6.3×5.4
A	1.8	2.1	2.4
B	4.3	5.3	6.6
C	4.3	5.3	6.6
E	1.0	1.3	2.2
L	5.4	5.4	5.4
H	0.5~0.8		