

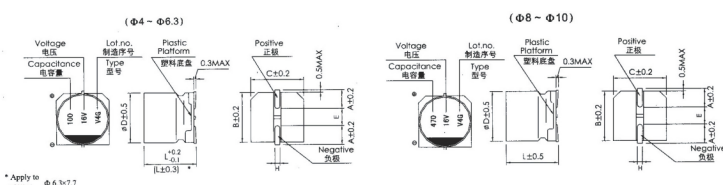


**Features**

- Case diameter:  $\varnothing$ 4mm- $\varnothing$ 10mm;
- Reflow soldering is available.
- Available for high density surface mounting.

**Specifications**

Item	Characteristics										
Operating temperature range	-40~+85℃										
Rated voltage range	4V~100V										
Nominal Capacitance Range	0.1-1500uF										
Nominal Capacitance Tolerance	±20% (20℃, 120Hz)										
Leakage Current	$I \leq 0.01C_r \times V_r$ or $3(\mu A)$ whichever is greater (After 2 minutes' application of rated voltage) $C_r$ : Nominal Capacitance (uF) $V_r$ : Rated voltages (V)										
Dissipation Factor(Max) 20℃, 120Hz	UR (V)	4	6.3	10	16	25	35	50	63	100	
	tg $\delta$	0.35	0.28	0.24	0.20	0.16	0.14	0.12	0.12	0.10	
Load Life	After 2000 hours' application of rated voltage at 85℃, the capacitor shall meet the following requirement.										
	Capacitance Change	Within ±20% of the initial value ( $\leq 16V$ : within ±25% of the initial value)									
	Dissipation Factor	Not more than 200% of the initial specified value									
	Leakage Current	Not more than the initial specified value									
Shelf Life	After storage for 1000 hours +85℃, $U_r$ to be applied for 30 minutes, the capacitors shall meet the requirement of load life above										
Low Temperature Stability Impedance Ratio(120Hz)	UR (V)		4	6.3	10	16	25	35	50	63	100
	Z(-25℃)	< $\varnothing$ 8	7	4	3	2	2	2	2	2	2
	Z(+20℃)	< $\varnothing$ 8	7	5	4	3	2	2	2	2	2
	Z(-40℃)	< $\varnothing$ 8	15	8	8	4	4	3	3	3	3
Resistance to Soldering Heat	After reflow soldering according to Reflow Soldering Temperature Profile (see page 8) and restored at room temperature, they meet the following requirement.										
	Capacitance Change	Within ±10% of the initial value									
	Dissipation Factor	Not more than the initial specified value									
	Leakage Current	Not more than the initial specified value									



	4×5.4	5×5.4	6.3×5.4	6.3×7.7	8×10.5	10×10.5
A	1.8	2.1	2.4	2.4	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	10.3
E	1.0	1.3	2.2	2.2	3.1	4.5
L	5.4	5.4	5.4	7.7	10.5	10.5
H	0.5-0.8			0.8-1.1		



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

V uF	4		6.3		10		16		25		35		50		63		100	
	D×L mm	I~ mA	D×L mm	I~ mA	D×L mm	I~ mA	D×L mm	I~ mA	D×L mm	I~ mA	D×L mm	I~ mA	D×L mm	I~ mA	D×L mm	I~ mA	D×L mm	I~ mA
0.1													4×5.4	1.0	4×5.4	1.0		
0.22													4×5.4	2.0	4×5.4	2.3		
0.33													4×5.4	2.8	4×5.4	3.5		
0.47													4×5.4	4.0	4×5.4	5.0		
1.0													4×5.4	8.4	4×5.4	10		
2.2													4×5.4	13	4×5.4	15		
3.3													4×5.4	17	4×5.4	20	6.3×7.7	28
4.7									4×5.4	16	4×5.4	18	4×5.4	18	4×5.4	23	6.3×7.7	35
													5×5.4	20				
10							4×5.4	23	4×5.4	24	4×5.4	24	5×5.4	30	6.3×5.4	34	6.3×7.7	50
22			4×5.4	28	4×5.4	30	4×5.4	30	5×5.4	38	5×5.4	39	6.3×5.4	43	6.3×7.7	70	8×10.5	120
					5×5.4	33	5×5.4	37	6.3×5.4	42	6.3×5.4	46						
33	4×5.4	28	4×5.4	34	4×5.4	34	5×5.4	44	5×5.4	46	6.3×5.4	53	6.3×7.7	85	8×10.5	160	10×10.5	190
			5×5.4	37	5×5.4	41	6.3×5.4	49	6.3×5.4	52								
47	4×5.4	33	4×5.4	40	5×5.4	47	5×5.4	52	6.3×5.4	60	6.3×7.7	70	6.3×7.7	90	8×10.5	170		
			5×5.4	45	6.3×5.4	52	6.3×5.4	58					8×10.5	140				
56	5×5.4	42	5×5.4	46	5×5.4	50	5×5.4	57	6.3×7.7	65	6.3×7.7	80	8×10.5	150	8×10.5	230		
			6.3×5.4	52	6.3×5.4	57	6.3×5.4	63										
100	5×5.4	56	5×5.4	47	5×5.4	54	6.3×5.4	86	6.3×7.7	130	6.3×7.7	120	8×10.5	181	8×10.5	280		
			6.3×5.4	70	6.3×5.4	76					8×10.5	175	10×10.5	195				
150	6.3×5.4	79	6.3×5.4	71	6.3×7.7	76	6.3×7.7	135	8×10.5	192	8×10.5	214	10×10.5	238				
	6.3×5.4	96	6.3×7.7	95	6.3×7.7	150	6.3×7.7	150	8×10.5	232	8×10.5	246	10×10.5	289				
220							8×10.5	215	10×10.5	250	10×10.5	265						
	6.3×7.7	152	6.3×7.7	150	8×10.5	240	8×10.5	270	8×10.5	284	10×10.5	324						
330																		
	6.3×7.7	200	8×10.5	265	8×10.5	290	8×10.5	307	10×10.5	393								
470																		
							10×10.5	330										
680	8×10.5	284	8×10.5	318	10×10.5	374	10×10.5	396										
	8×10.5	344	8×10.5	372	10×10.5	374												
1000			10×10.5	400		454												
	10×10.5	347	10×10.5	489														
1500																		

**Frequency coefficient of ripple current**

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