

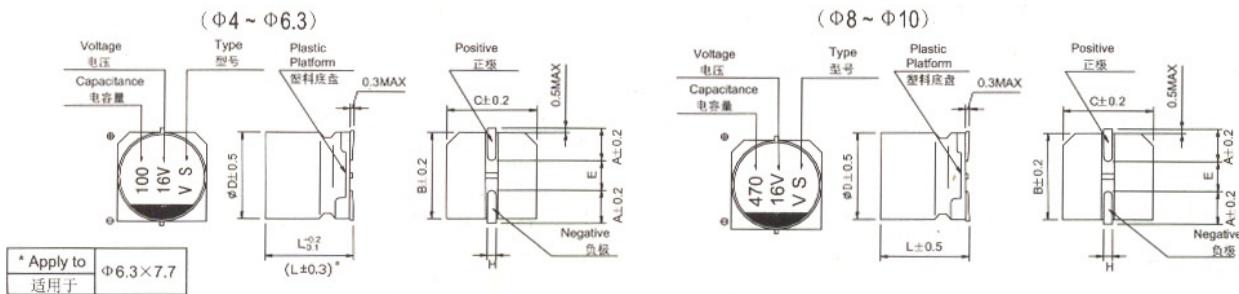
## Features

- Case diameter:  $\phi 4\text{mm}$ - $\phi 10\text{mm}$
- Reflow soldering is available
- Available for high density surface mounting

## Specifications

Item	Characteristics																		
Operating temperature range	$-40\sim 85^\circ\text{C}$																		
Rated voltage range	$4\sim 100\text{V}$																		
Capacitance range	$0.1\sim 1500\text{nF}$																		
Capacitance tolerance (at $20^\circ\text{C}, 120\text{Hz}$ )	$\pm 20\%(\text{M})$																		
Leakage current(I) (at $20^\circ\text{C}$ )	$I \leq 0.01C_R V_R$ or $3(\mu\text{A})$ $I \leq 0.01C_R V_R$ or $3(\mu\text{A})$ whichever is greater (After 2 minutes' application of rated voltage) $C_R$ :Nominal Capacitance( $\mu\text{F}$ ) $V_R$ :Rated voltage in V																		
Dissipation factor( $Tg\delta$ ) (at $20^\circ\text{C}, 120\text{Hz}$ )	$U_R(\text{V})$	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									
Low temperature characteristics (at 120Hz)	$U_R(\text{V})$	4	6.3	10	16	25	35	50	63	100									
	$Z(-25^\circ\text{C})/Z(+20^\circ\text{C})$	$< \phi 8$	7	4	3	2	2	2	2	2									
		$\geq \phi 8$	7	5	4	3	2	2	2	2									
	$Z(-40^\circ\text{C})/Z(+20^\circ\text{C})$	$< \phi 8$	15	8	8	4	4	3	3	3									
		$\geq \phi 8$	15	10	8	6	4	3	3	3									
Load life	After 1000 hours' application of rated voltage at $85^\circ\text{C}$ ,the capacitor shall meet the following requirement																		
	Capacitance change	Within $\pm 20\%$ of the initial value( $\leq 16\text{V}$ :within $\pm 25\%$ 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 500 hours at $+85^\circ\text{C}$ ,the capacitors shall meet the requirement of load life above																		
Resistance to Soldering Heat	The capacitors shall be kept on the hot plate maintained at $250^\circ\text{C}$ for 30 seconds .After removing from the hot plate and restored at room temperature ,they meet the following requirement																		
	Capacitance change	Within $\pm 10\%$ of the initial value																	
	Dissipation Factor	Not more than the initial specified value																	
	Leakage Current	Not more than the initial specified value																	

## Dimensions





	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	5.4	10.5	10.5
H		0.5~0.8			0.8~1.1	

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

Cap μF	4		6.3		10		16		25		35		50		63		100			
	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	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		
									5×5.4	27	5×5.4	29	6.3×5.4	33						
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	160		
				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	8×10.5	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						
220	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						
								8×10.5	215	10×10.5	250	10×10.5	265							
330	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								
								10×10.5	305											
470	6.3×7.7	200	8×10.5	265	8×10.5	290	8×10.5	307	10×10.5	305										
								10×10.5	330											
680	8×10.5	284	8×10.5	318	10×10.5	374	10×10.5	396												
1000	8×10.5	344	8×10.5	372	10×10.5	454	10×10.5	454												
				10×10.5	400															
1500	10×10.5	347	10×10.5	489																

I~ = Rated ripple current(mA)(85°C, 120Hz)