

- Load life : 105°C 1000~2000 hours.
- For high density mounting.
- Impedance Lower than CF series
- Corresponding product to RoHS

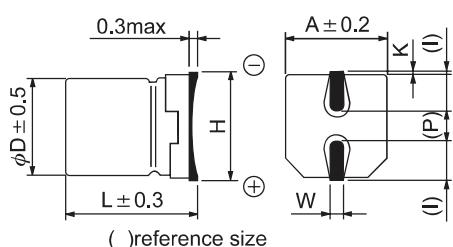


SPECIFICATION

Item	Characteristic											
Operation Temperature Range	-55 ~ +105°C											
Rated Working Voltage	6.3 ~ 50VDC											
Capacitance Tolerance (120Hz 20°C)	$\pm 20\%(\text{M})$											
Leakage Current (20°C)	$I \leq 0.01CV$ or $3 (\mu\text{A})$					I : Leakage Current (μA)	C : Rated Capacitance (μF)					
	*Whichever is greater after 2 minutes					V : Working Voltage (V)						
Surge Voltage (20°C)	W.V.		6.3	10	16	25	35					
	S.V.		8	13	20	32	44					
	Add 0.02 per 1000 μF for more than 1000 μF											
Dissipation Factor (tan δ) (120Hz 20°C)	W.V.		6.3	10	16	25	35					
	tan δ_{ϕ}	$\phi 4 \sim \phi 6.3$		0.24	0.20	0.16	0.14					
		$\phi 8 \sim \phi 10$		0.28	0.24	0.20	0.16					
	0.12 0.14 0.12 0.14											
Impedance ratio at 120Hz												
Low Temperature Stability	Rated Voltage (V)		6.3	10	16	25	35					
	-40°C / +20°C		3	2	2	2	2					
	-55°C / +20°C		5	4	4	3	3					
After hours ($\phi D \leq 6.3\text{mm}$ 1000 hours, $\phi D \geq 8\text{mm}$ 2000 hours) application of W.V. and +105°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage \leq rate working voltage)												
Load Life	Capacitance Change		$\leq \pm 25\%$ of initial value									
	Dissipation Factor		$\leq 200\%$ of initial specified value									
	Leakage current		\leq initial specified value									
Shelf Life	At +105°C, no voltage application after 1000 hours, the capacitor shall meet the limits for load life characteristics. (With voltage treatment)											
Capacitors placed on a 250°C hot plate for 30 seconds with their electrode terminals facing downward will fulfill the following conditions after being cooled to room temperature.												
Resistance to Soldering Heat	Capacitance Change		$\leq \pm 10\%$ of initial value									
	Dissipation Factor		\leq initial specified value									
	Leakage current		\leq initial specified value									

DIMENSIONS (mm)

D	L	A	H	I	W	P	K
4.0	5.8	4.3	5.5MAX	1.8	0.65 ± 0.1	1.0	$0.35^{+0.15}_{-0.20}$
5.0	5.8	5.3	6.5MAX	2.2	0.65 ± 0.1	1.5	$0.35^{+0.15}_{-0.20}$
6.3	5.8	6.6	7.8MAX	2.6	0.65 ± 0.1	2.1	$0.35^{+0.15}_{-0.20}$
6.3	7.7	6.6	7.8MAX	2.6	0.65 ± 0.1	2.1	$0.35^{+0.15}_{-0.20}$
8.0	10.2	8.3	10.0MAX	3.4	0.90 ± 0.2	3.1	0.70 ± 0.20
10.0	10.2	10.3	12.0MAX	3.5	0.90 ± 0.2	4.6	0.70 ± 0.20



● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
 Max impedance : Ω 20°C 100kHz
 Max ripple current : mA(rms) 105°C 100kHz

V(DC) μF	6.3			10			16			25			35			50		
	DxL	IMP.	R.C.															
4.7																4x5.8	1.45	90
10										4x5.8	1.45	90	5x5.8	0.70	170	6.3x5.8	0.52	215
15							4x5.8	1.45	90	5x5.8	0.70	170	5x5.8	0.70	170	6.3x5.8	0.52	215
22				4x5.8	1.45	90	5x5.8	0.70	170	5x5.8	0.70	170	5x5.8	0.70	170	6.3x5.8	0.52	215
27	4x5.8	1.45	90	5x5.8	0.70	170	5x5.8	0.76	150	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x7.7	0.44	243
33	5x5.8	0.70	170	5x5.8	0.70	170	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x7.7	0.44	243
47	5x5.8	0.70	170	6.3x5.8	0.39	250	6.3x7.7	0.44	243									
56	5x5.8	0.70	170	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x7.7	0.30	300	8x10.2	0.22	400
68	6.3x5.8	0.39	250	6.3x7.7	0.30	300	8x10.2	0.22	400									
100	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x7.7	0.30	300	8x10.2	0.15	600	8x10.2	0.22	400
150	6.3x5.8	0.39	250	6.3x5.8	0.39	250	6.3x7.7	0.30	300	8x10.2	0.15	600	8x10.2	0.15	600	10x10.2	0.13	585
220	6.3x5.8	0.39	250	6.3x7.7	0.30	300	6.3x7.7	0.30	300	8x10.2	0.15	600	8x10.2	0.15	600	10x10.2	0.13	585
330	6.3x7.7	0.30	300	8x10.2	0.15	600	8x10.2	0.15	600	8x10.2	0.15	600	10x10.2	0.08	850			
470	8x10.2	0.15	600	8x10.2	0.15	600	8x10.2	0.15	600	10x10.2	0.08	850						
680	8x10.2	0.15	600	10x10.2	0.08	850	10x10.2	0.08	850									
1000	8x10.2	0.15	600	10x10.2	0.08	850												
1500	10x10.2	0.08	850															