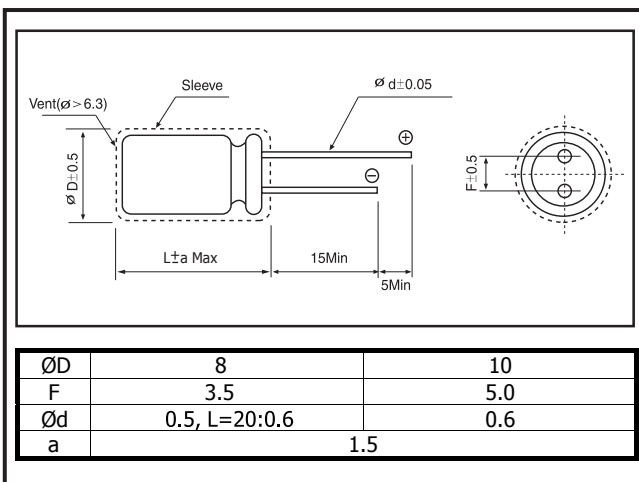


- Ultra Low ESR
- Reduced Impedance at High Frequency
- For Miniaturized and High Performance Equipments

■ SPECIFICATIONS

Operating Temperature Range	-25~+105°C																								
Capacitance Tolerance	±20% (at 20°C, 120Hz)																								
Leakage Current	I ≤ 0.03CV or 3 uA whichever is greater (at 20°C, after 2 minutes) I: Leakage Current (uA)    C: Nominal Capacitance (uF)    V: Rated Voltage (V)																								
Dissipation Factor (At 20°C, 120Hz)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> </tr> <tr> <td>tan δ</td> <td>0.3</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> </tr> </table>					Rated Voltage (V)	4	6.3	10	16	tan δ	0.3	0.22	0.19	0.16										
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Temperature Characteristics (Impedance Ratio at 120Hz)	<table border="1"> <tr> <td>W.V</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> </tr> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> </tr> </table>					W.V	4	6.3	10	16	Z(-25°C)/Z(+20°C)	3	2	2	2										
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Load Life (+105°C)	<table border="1"> <tr> <td>Time</td> <td colspan="4">2,000 hours after an application of DC bias voltage plus the rated ripple current. The peak voltage shall not exceed rated DC voltage</td> </tr> <tr> <td>Capacitance Change</td> <td colspan="4">Within ±30%(L=8*9:±40%) of the initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td colspan="4">200% of the initial specified value or less</td> </tr> <tr> <td>Leakage Current</td> <td colspan="4">Initial specified value or less</td> </tr> </table>					Time	2,000 hours after an application of DC bias voltage plus the rated ripple current. The peak voltage shall not exceed rated DC voltage				Capacitance Change	Within ±30%(L=8*9:±40%) of the initial value				Dissipation Factor	200% of the initial specified value or less				Leakage Current	Initial specified value or less			
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Shelf Life (+105°C)	1000 hours. No voltage applied. After Test: U <sub>R</sub> to be applied for 30 minutes, 24 to 48 hours before measurement.																								

■ DIMENSION



■ MULTIPLIER FOR RIPPLE CURRENT

	Freq(Hz)			
Cap (UF)	120	1K	10K	100K
470 ~ 3300	0.50	0.80	0.90	1.0

## ■ STANDARD RATINGS

uF	V	4			6.3			10		
		Size (mm)	Impedance	Ripple	Size (mm)	Impedance	Ripple	Size (mm)	Impedance	Ripple
		ØDxL	Ω	mArms	ØDxL	Ω	mArms	ØDxL	Ω	mArms
680		8x9	0.028	750						
820		8x9	0.028	750						
1000		8 x12	0.025	1300	8 x12	0.025	1300	8 x20	0.015	2100
1200		8 x20	0.015	2100	8 x20	0.015	2100	10x20	0.012	2800
1500		8 x20	0.015	2100	8 x20	0.015	2100	10x20	0.012	2800
1800		8 x23	0.012	2450	8 x23	0.012	2450	10x20	0.012	2800
2200		10x20	0.012	2800	10x20	0.012	2800	10x25	0.011	3230
3300		10x25	0.011	3230	10x25	0.011	3230			

uF	V	16		
		Size (mm)	Impedance	Ripple
		ØDxL	Ω	mArms
470		8x12	0.025	1300
1000		10x20	0.012	2800
1200		10x20	0.012	2800
1500		10x20	0.012	2800

Ripple Current: mA(rms) at 100KHz, 105°C