

**FF**

Large capacitance Series

Upgrade

100V  
LINEUP

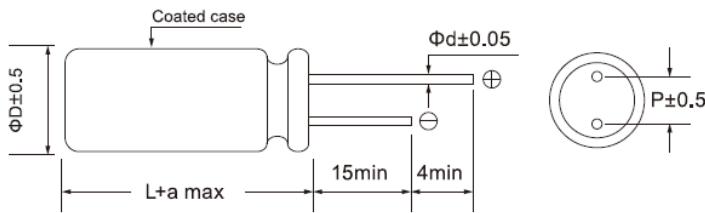


- Endurance: 105°C, 2000hrs
- Recommended Applications: Ultra low ESR & Large capacitance Series
- Corresponding product to RoHS

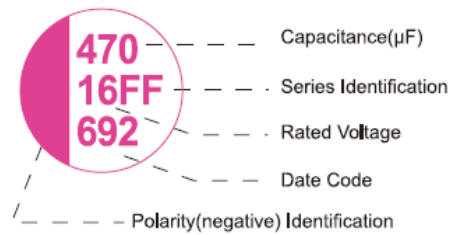
**Specifications**

Item	Characteristics	
Category Temperature Range	-55 ~ +105°C	
Rated Voltage Range	6.3~100VDC	
Rated Capacitance Range	10~ 2200 μF	
Capacitance Tolerance	± 20 % (120Hz , 20°C)	
Surge Voltage	Rated voltage ( V ) x 1.15	
Leakage Current ( 20°C )	I ≤ 0.2CV or 300( μ A ) whichever is greater (After rated voltage applied for 2 minutes ) I : Leakage Current ( μ A ) C : Capacitance ( μ F ) V : Rated Voltage Range (VDC)	
Dissipation Factor (MAX) (tan δ ) (120Hz , 20°C)	WV	6.3~100
	tan δ	0.12
Temperature characteristic Impedance ratio (MAX)	Z(100KHz) / WV	6.3 ~ 100V
	Z-25°C / Z+20°C	≤ 1.15
	Z-55°C / Z+20°C	≤ 1.25
Endurance	After applying rated voltage for 2000 hours at 105°C, the capacitor shall meet the following requirement °	
	Appearance	No significant damage
	Capacitance Change	Within ±20% of the initial value
	Dissipation Factor	Not more than 150% of the initial specified value
	Equivalent Series Resistance	Not more than 150% of the initial specified value
Humidity Test	after subjecting 90 to 95% RH for 1000 hours at 60°C , the capacitors shall meet the requirement as Endurance °	
	Surge voltage test	
Failure rate(MAX)	After subjecting to 1000 cycles each consisting of charge with the surge voltage specified at normal temperature for 30 seconds through a protective resistor and discharge for 5 minutes 30 seconds, the capacitors shall meet the requirement as Endurance	
	1% per 1,000 hours (confidence level 60% at 105°C)	

**Diagram of Dimensions**



**Marking : case with red printing**



SIZE	Φ D x L	P	Φ d	a
E01	6.3x5.4	2.5	0.45	1.0
E06	6.3x6	2.5	0.5	1.5
E08	6.3x8	2.5	0.5or0.6	1.0
E11	6.3x11	2.5	0.5	1.0
G08	8x8	3.5	0.6	1.5
G1B	8x11.5	3.5	0.6	1.0
H1A	10x10.5	5.0	0.6	1.0
H1C	10x12.5	5.0	0.6	1.0

**Multiplier for Ripple Current**

Frequency(HZ)	120 ≤ F < 1K	1K ≤ F < 10K	10K ≤ F < 100K	100K ≤ F ≤ 500K
Coefficient	0.05	0.30	0.70	1.00

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■ Dimensions, Rated Ripple Current, Equivalent Series Resistance

Rated ( Surge ) Voltage(V)	Capacitance ( $\mu$ F )	SIZE $\Phi$ DxL(mm)	RIPPLE (mA/rms, 105°C 100kHz)	ESR (m $\Omega$ , 20°C 100kHz)	Rated ( Surge ) Voltage(V)	Capacitance ( $\mu$ F )	SIZE $\Phi$ DxL(mm)	RIPPLE (mA/rms, 105°C 100kHz)	ESR (m $\Omega$ , 20°C 100kHz)	
6.3(7.25)	150	6.3x5.4	1810	30	25(28.75)	680	10x13	3500	20	
	680	6.3x10.5	2800	28		820	10x16	3500	20	
	1000	8x8	3000	10		1000	10x16	3500	20	
	1500	8x11.5	4860	8	32(36.8)	22	6.3x8	990	60	
		8x11.5	4860	8		47	6.3x8	990	60	
		10x10.5	5000	8		100	8x8	1200	50	
		10x12.5	5000	7	150	8x8	1500	50		
		1800	10x12.5	5000	7	35(40.25)	10	6.3x8	990	60
2200	10x11.5	5600	7	22	6.3x8		990	60		
	10x12.5	5600	7	33	6.3x6		990	70		
	8x8	3000	12	47	6.3x8		990	60		
8x8	3000	12	68		6.3x8		990	60		
10(11.5)	560	8x8	3000	12	50(57.5)		100	6.3x10.5	1200	50
	680	8x8	3000	12				8x8	2000	50
	820	8x11.5	4000	12				8x11.5	2300	35
	1000	10x12.5	4360	12			150	8x11.5	2300	35
16(18.4)	470	8x11.5	4000	12			220	8x11.5	2400	35
	560	8x11.5	4000	12		270	10x10.5	2400	35	
	820	10x12.5	4000	11			10x12.5	2500	25	
	1000	10x12.5	4200	11		330	10x12.5	2500	25	
25(28.75)	22	6.3x5.4	1200	60		63(72.45)	10	6.3x8	900	80
	47	6.3x5.4	1200	60			33	8x8	1100	65
		6.3x8	1200	35	47		8x8	1100	65	
	68	6.3x6	1200	35			56	10x12.5	1500	55
		8x8	1500	30			100	10x12.5	2000	50
	100	6.3x8	1500	35	10			6.3x8	900	90
		8x8	1500	30	80(92.00)	47	10x12.5	1300	70	
	120	6.3x8	1500	35		100(115.00)	22	10x12.5	1200	100
		8x8	1500	30						
	150	8x8	1600	28						
	220	8x8	2280	28						
	270	8x11.5	2800	28						
	330	8x11.5	2800	25						
		10x10.5	2800	25						
	470	10x12.5	3050	25						
	560	10x12.5	3050	25						
	680	8x15	2500	20						