

FG Standard Series

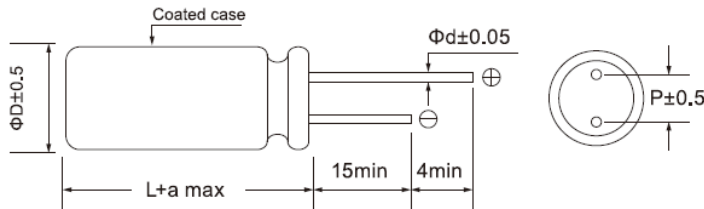
- Endurance: 105°C, 2000hrs
- Recommended Applications: standard
- Corresponding product to RoHS



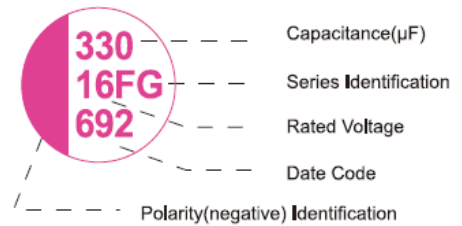
Specifications

Item	Characteristics		
Category Temperature Range	-55 ~ +105°C		
Rated Voltage Range	2.5~25VDC		
Rated Capacitance Range	22~ 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	2.5~10	12~25
	tan δ	0.08	0.12
Temperature characteristic Impedance ratio (MAX)	Z(100KHz) / WV	2.5 ~ 25V	
	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 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		
Failure rate(MAX)	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
C07	5x7	2.0	0.5	1.5
C09	5x9	2.0	0.5	1.0
D07	5x7	2.5	0.5	1.0
D09	5x9	2.5	0.5	1.0
D11	5x11	2.5	0.5	1.0
E01	6.3x5.4	2.5	0.45	1.0
E06	6.3x6	2.5	0.5	1.5
E07	6.3x7	2.5	0.5	1.5
E08	6.3x8	2.5	0.5 or 0.6	1.0
E09	6.3x9	2.5	0.5	1.0

SIZE	Φ D x L	P	φ d	a
E11	6.3x11	2.5	0.5	1.0
G08	8x8	3.5	0.6	1.5
G09	8x9	3.5	0.6	1.5
G1B	8x11.5	3.5	0.6	1.0
G12	8x12	3.5	0.6	1.0
G15	8x15	3.5	0.6	1.5
H1A	10x10.5	5.0	0.6	1.0
H1C	10x12.5	5.0	0.6	1.0
H13	10x13	5.0	0.6	1.0
H16	10x16	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

■Dimensions, Rated Ripple Current, Equivalent Series Resistance

Rated (Surge) Voltage(V)	Capacitance (μ F)	SIZE Φ DxL(mm)	RIPPLE (mA/rms,105°C 100KHz)	ESR (mΩ,20°C 100KHz)	Rated (Surge) Voltage(V)	Capacitance (μ F)	SIZE Φ DxL(mm)	RIPPLE (mA/rms,105°C 100KHz)	ESR (mΩ,20°C 100KHz)
2.5 (2.88)	560	6.3x6	4000	10	7.5 (8.62)	390	5x9	3100	15
		6.3x8	3160	20		470	5x9	3100	15
	820	6.3x8	3160	20		500	5x9	3100	12
		8x11.5	5600	7		680	6.3x9	3500	12
	1500	10x12.5	5600	7	10 (11.5)	68	6.3x5.4	1810	30
2200	10x12.5	5600	7	100		5x7	3500	11	
4 (4.6)	560	6.3x8	3160			20	6.3x5.4	2320	27
		6.3x8	3160	20		150	6.3x5.4	2200	30
	680	8x11.5	5600	7		180	6.3x8	2820	25
		6.3x9	3160	20		220	6.3x8	2820	25
	820	10x12.5	5600	7		270	6.3x8	2820	25
		8x11.5	5600	7		330	6.3x8	2820	25
1000	10x12.5	5600	7	8x8			3500	11	
	1500	8x11.5	5600	7		470	6.3x9	2820	25
2200		10x12.5	5600	7			8x11.5	5600	8
6.3 (7.25)	47	6.3x5.4	1810	30			10x10.5	5050	8
	100	6.3x5.4	1810	40		560	8x11.5	5600	8
	180	6.3x5.4	1810	30			10x12.5	6100	8
	220	5x7	3500	11		680	8x11.5	5600	8
		6.3x5.4	1810	30	10x12.5		6100	8	
	270	6.3x6	3160	15	820	8x11.5	5600	8	
		5x7	3500	11		10x12.5	6100	8	
	330	6.3x7	3500	11	1200	10x12.5	6100	8	
		5x7	3500	11		1500	10x12.5	6100	8
	390	6.3x5.4	1810	30	16(18.4)		22	5x7	2200
		6.3x6	3390	22		33	6.3x5.4	2200	30
	450	5x9	3500	11		47	6.3x5.4	1650	35
		6.3x9	3500	8		68	6.3x6	2610	25
	470	6.3x6	3390	22		100	6.3x5.4	1650	35
		5x9	3190	28			6.3x5.4	2490	24
		6.3x8	3800	10		150	6.3x8	2820	25
		8x8	4200	8			8x8	3150	22
	560	6.3x8	4000	10		180	6.3x8	2820	25
		8x8	4800	12			6.3x9	3100	20
	680	6.3x9	3500	8		270	8x8	3500	16
		8x11.5	5600	7			8x11.5	3800	15
	820	6.3x9	3500	8	10x10.5		5000	11	
		8x11.5	5600	7	10x10.5	5050	14		
		10x10.5	5050	8	330	6.3x9	3100	20	
	10x12.5	5600	7	8x11.5		5000	11		
	1000	8x8	4770	10	470	10x10.5	5050	14	
		8x11.5	5600	7		10x12.5	6100	10	
1200	8x11.5	5600	7	560	8x11.5	5000	11		
	10x10.5	5050	8		10x10.5	5050	11		
1500	8x11.5	5600	7	10x12.5	6100	10			
	10x10.5	5050	8		10x12.5	6100	10		
2200	10x12.5	5600	7	16 (18.4)	680	8x11.5	5000	11	
	10x12.5	5600	7		820	10x12.5	6100	10	
6.8 (7.82)	180	5x7	2300			20	1000	8x15	5000
	220	5x7	2500		20	10x12.5		5050	14
270	5x7	2500	20		25 (28.75)	33	6.3x8	1650	35
330	5x9	3100	15			47	6.3x10.5	1980	35
390	5x9	3100	15	68		8x8	2980	35	
450	6.3x6	3100	15	7.5 (8.62)	270	5x9	2690	15	
680	6.3x9	3500	11						
820	6.3x9	3500	11						
1000	6.3x11	4200	10						