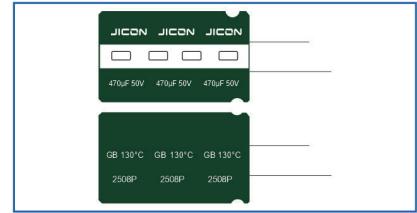


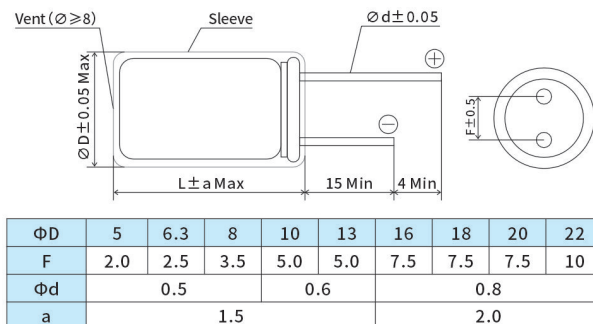
GE 系列 SERIES

- 2000-5000h at 130°C
- 130°C high temperature resistance
- -55°C ultra low temperature resistance
- High reliability
- RoHS Compliant



Items	Characteristics							
Operating Temperature Range(°C)	-55~+130							
Voltage Range (V)	10~100							
Capacitance Range (μF)	10~5600							
Capacitance Tolerance(20°C,120Hz)	± 20%							
Leakage Current (μA)	6.3~100V							
	I ≤ 0.01CV or 3μA whichever is greater After 2 minute at 20°C application of rated voltage							
	I:Max. leakage current (μA) C:Nominal Capacitance (μF) V:Rated Voltage (V)							
Dissipation Factor (20°C,120Hz)	Rated Voltage (V)	10	16	25	35	50	63	100
	Tanδ(max)	0.20	0.18	0.16	0.14	0.14	0.12	0.10
	For Capacitances > 1000μF add 0.02 to every 1000μF							
Low Temperature Characteristics (Max. Impedance Ratio at 120Hz)	Rated Voltage (V)	10~35		50~63		100		
	Z-55°C/Z+20°C	4		3		3		
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for the specified period of time at 130°C.							
	Capacitance change	≤ ± 20% of the initial value					Case Dia	Life time (h)
	D.F.(Tanδ)	≤ 200% of specified value					φD ≤ 6.3	2000
	Leakage current	≤ The initial specified value					φD = 8	3000
							φD > 8	5000
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 130°C without voltage applied .							
	Capacitance change	≤ ± 20% of the initial value						
	D.F.(Tanδ)	≤ 200% of specified value						
	Leakage current	≤ 200% of specified value						

◆ Dimensions(mm)



◆ Frequency Coefficient

Frequency Cap(µF)	120HZ	1KHZ	10KHZ	100KHZ
≤ 180	0.40	0.75	0.90	1.00
220~560	0.50	0.83	0.93	1.00
680~1800	0.60	0.86	0.95	1.00
2200~3900	0.75	0.90	0.97	1.00
≥ 4700	0.85	0.95	0.98	1.00

◆ Temperature Coefficient

Temperature(°C)	+85	+105	+130
Coefficient	2.00	1.60	1.00

◆ Ratings for GE Series

UR (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C100kHz	Rated Ripple Current 130°C100kHz	Size $\phi D \times L$
(V)	(μF)	(Ω)	(mA rms)	(mm)
10(13)1A	330	0.550	320	8×12
	470	0.390	535	8×14
	680	0.240	725	10×13
	1000	0.200	960	10×16
	1500	0.130	1210	10×20
	2200	0.100	1430	13×20
	3300	0.078	1900	13×25
	4700	0.060	2300	16×25
	5600	0.055	2718	16×30
16(20)1C	220	0.570	275	8×12
	330	0.360	360	8×14
	470	0.250	620	10×13
	560	0.220	710	10×16
	680	0.200	825	10×20
	1000	0.130	1050	13×16
	1500	0.100	1250	13×20
	2200	0.078	1550	13×25
	3300	0.060	2300	16×25
25(32)1E	4700	0.048	2550	18×25
	150	0.480	250	8×12
	220	0.360	360	10×13
	330	0.260	620	10×16
	470	0.210	800	10×20
	680	0.140	950	13×16
	1000	0.100	1100	13×20
	1500	0.078	1650	13×25
	2200	0.060	2300	16×25
35(44)1V	3300	0.048	2550	18×30
	100	0.450	360	8×12
	150	0.390	480	10×13
	220	0.250	620	10×16
	330	0.180	800	10×20
	470	0.130	960	13×16
	560	0.120	1100	13×20
	820	0.087	1250	13×25
	1000	0.084	1430	16×20
50(63)1H	1500	0.060	2010	16×30
	2200	0.048	2550	18×30
	3300	0.039	2800	18×40
	47	1.050	300	8×12
	68	0.740	420	8×12
	100	0.550	520	8×14
	120	0.520	640	10×13
	150	0.500	760	10×16
	220	0.420	890	10×20
	330	0.360	1000	13×16
	470	0.300	1200	13×20
	560	0.230	1520	13×25
	680	0.210	1850	16×20
	1000	0.120	2180	16×25
	1500	0.089	2460	18×30
	1800	0.085	2680	18×35
	2200	0.081	2800	18×40

UR (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C 100kHz	Rated Ripple Current 130°C100kHz	Size $\phi D \times L$
(V)	(μF)	(Ω)	(mA rms)	(mm)
63(79)1J	33	3.300	250	8×12
	47	1.900	400	8×14
	68	1.600	420	10×13
	100	0.980	450	10×16
	150	0.750	630	10×20
	220	0.500	820	13×20
	330	0.330	1000	13×25
	470	0.280	1500	16×20
	560	0.230	1580	16×25
	680	0.190	1660	16×30
	820	0.150	1750	18×25
	1000	0.110	1850	18×30
	1200	0.098	2100	18×30
	1500	0.092	2350	18×35
100(125)2A	1800	0.090	2732	18×40
	10	8.800	130	8×12
	18	5.600	180	8×12
	22	4.400	220	8×14
	33	3.200	260	10×13
	47	2.400	330	10×16
	56	2.200	450	10×20
	82	1.720	565	13×16
	100	1.400	670	13×20
	150	1.200	885	13×25
	220	0.520	1100	16×25
	330	0.380	1300	16×30
	470	0.300	1600	18×35
	560	0.240	1854	18×40