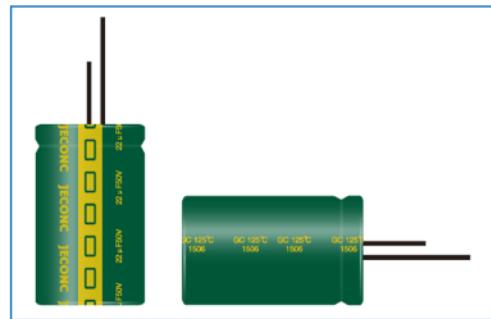


GC 系列 SERIES

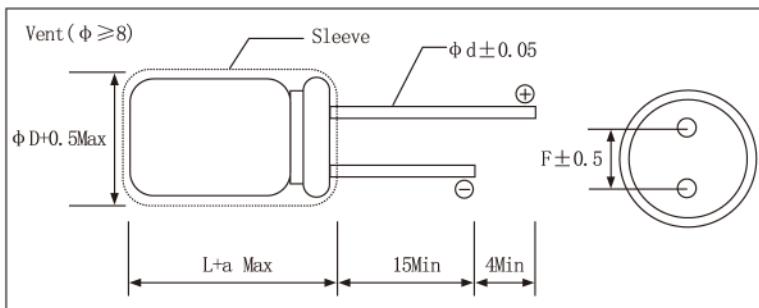
- High reliability high temperature
- Endurance: 125°C 2,000~3000 hours
- RoHS Compliant



◆ SPECIFICATION

Items	Characteristics						
Operating Temperature Range (°C)	-40~+125°C						
Voltage range (V)	10~100V						
Capacitance Range (μ F)	1~4700 μ F						
Capacitance Tolerance	$\pm 20\%$ (at 20°C, 120Hz)						
leakage current (μ A)	$I \leq 0.01 C_R U_R$ (at 20°C, After 5 minutes application of rate voltage) I=Leakage Current UR=Rated Voltage CR=Rated Capacitance.						
Dissipation Factor (Tan δ)	WV (V)	10	16	25	35	50	63
	Tan δ (max)	0.20	0.16	0.14	0.12	0.10	0.09
		(at 20°C, 120Hz)					
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage (V)	10	16	25	35	50	63
	Z (-25°C) / Z (+20°C)	3			2		
	Z (-40°C) / Z (+20°C)	6	4		3		
	(120Hz)						
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated rippled current is applied for 2000~3000 hours at 125°C						
	Capacitance change	Within $\pm 30\%$ initial value					
	D.F. (Tan δ)	Not more than 300% of specified value					
	leakage current	Not more than specified value					
Case Dia.	Life time(hours)						
$\Phi D \leq 10$	2000						
$\Phi D > 10$	3000						
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 125°C without voltage applied.						
	Capacitance change	Within $\pm 30\%$ initial value					
	D.F. (Tan δ)	Not more than 300% of specified value					
	leakage current	Not more than 500% of specified value					

◆ DIMENSIONS(mm)



◆ Frequency Coefficient

Cap. (μF)	Frequency (Hz)				
	50/60	120	1k	10k	100k
Cap < 10	0.35	0.42	0.60	0.80	1.00
10 ≤ Cap. < 47	0.45	0.55	0.75	0.90	1.00
47 ≤ Cap. < 470	0.60	0.70	0.85	0.95	1.00
470 ≤ Cap. < 2200	0.65	0.75	0.90	0.98	1.00
Cap. ≥ 2200	0.75	0.80	0.95	1.00	1.00

◆ Temperature Coefficient

Temperature (°C)	+85	+105	+125
Coefficient	2.00	1.60	1.00

D	8	10	12.5	16	18
d	0.5	0.6	0.6	0.6	0.8
F	3.5	5.0	5.0	7.5	7.5
D'	$\varnothing D + 0.5 \text{ max.}$				
L'	L + 2 max.				

GC 系列

SERIES

◆ STANDARD RATINGS

UR (Surge Voltage) Code	Rated Capacitance	Dissipation Factor 20°C120Hz	Rated Ripple Current 125°C100kHz	Size ΦD×L
(V)	(μF)	tan δ	(mA rms)	(mm)
10 (13) 1A	330	0.20	360	8×12
	470	0.20	620	10×13
	1000	0.20	960	10×20
	2200	0.22	1430	13×25
	3300	0.24	1900	16×25
	4700	0.26	2300	16×30
16 (20) 1C	330	0.16	360	8×12
	470	0.16	620	10×13
	1000	0.16	960	10×20
	2200	0.18	1430	13×25
	3300	0.20	2300	16×30
	4700	0.22	2550	16×35
25 (32) 1E	220	0.14	360	8×12
	330	0.14	620	10×13
	470	0.14	800	10×16
	1000	0.14	1100	13×20
	2200	0.16	2300	16×30
	3300	0.18	2550	16×35
35 (44) 1V	100	12.00	360	8×12
	220	0.12	620	10×13
	330	0.12	800	10×16
	470	0.12	960	10×20
	1000	0.12	1430	13×25
	2200	0.14	2550	16×35
50 (63) 1H	1	0.10	35	8×12
	2.2	0.10	50	8×12
	3.3	0.10	70	8×12
	4.7	0.10	100	8×12
	10	0.10	200	8×12
	22	0.10	260	8×12
	33	0.10	300	8×12
	47	0.10	300	8×12
	100	0.10	520	10×13
	220	0.10	890	10×20
	330	0.10	1000	13×20
	470	0.10	1200	13×35
	1000	0.10	2180	16×30
	2200	0.12	2800	18×40
63 (79) 1J	33	0.09	250	8×12
	47	0.09	400	10×13
	100	0.09	450	10×16
	220	0.09	820	13×20
	330	0.09	1000	13×25
	470	0.09	1500	16×25
	1000	0.09	1850	16×30
	1500	0.09	2350	18×40
100 (125) 2A	4.7	0.08	100	8×12
	10	0.08	200	8×12
	22	0.08	220	8×12
	33	0.08	260	10×13
	47	0.08	330	10×16
	100	0.08	670	13×20
	220	0.08	1100	16×25
	330	0.08	1300	16×30
	470	0.08	1600	18×30