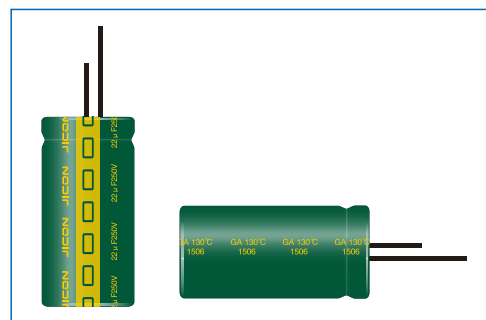


# GA 系列 SERIES

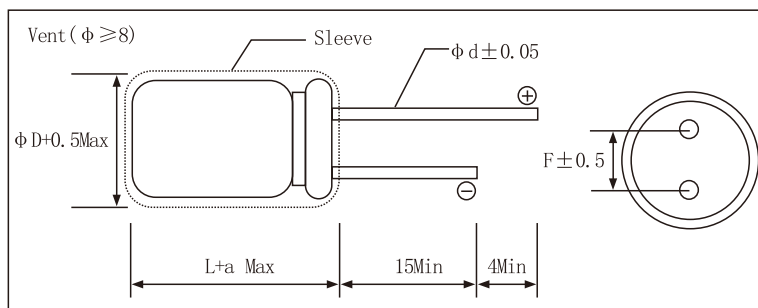
- 2000~3000hours at 130°C; 8000~12000h at 105°C
- High Temperature
- High Ripple Current
- Long Life Assurance
- Special for LED driver、ballast

## ◆ SPECIFICATION



Items	Characteristics							
Operating Temperature Range(°C)	-25~+130°C							
Voltage range (V)	160~450V							
Capacitance Range (μF)	1.5~100 μF							
Capacitance Tolerance	±20% (at 20°C, 120Hz)							
leakage current (μA)	After 2 minute at 20°C application of rated voltagee , leakag current is not more than 0.02CV+10(450wv, I≤0.03CV+10). C:Nominal Capacitance (μF) V :Rated Voltage (V)							
Dissipation Factor(Tan δ)	WV(V)	160	200	250	350	400	450	
	Tan δ (max)	0.15	0.15	0.15	0.20	0.20	0.20	
(at 20°C, 120Hz)								
Load Life	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 130°C							
	Capacitance change	Within ±20%initial value					Case Dia	Life time(hours)
	D. F. (Tan δ)	Not more than 200% of specified value					ΦD≤8	2000
	leakage current	Not more than specified value					ΦD>8	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 105°Cwithout voltage applied .Before the measurement ,the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.							
	Capacitance change	Within ±20%initial value						
	D. F. (Tan δ)	Not more than 200% of specified value						
	leakage current	Not more than 200% of specified value						

## ◆ DIMENSIONS(mm)



∅D	6.3	8	10	12.5	16	18
∅d	0.5	0.6	0.6	0.6	0.8	0.8
F	2.5	3.5	5.0	5.0	7.5	7.5
∅D'	∅D+0.5max.					
L'	L+2max.					

## ◆ Frequency Coefficient

Frequency (Hz)	120Hz	1kHz	10kHz	100kHz
Rated voltage (V)				
160~250WV	0.55	0.85	0.90	1.00
350~450WV	0.50	0.80	0.90	1.00

## ◆ Temperature Coefficient

Temperature (°C)	+85	+105	+130
Coefficient	1.40	1.00	0.60



◆ STANDARD RATINGS

UR (Surge Voltage) Code	Rated Capacitance	Rated Ripple Current 105°C100kHz	Size $\phi D \times L$
(V)	( $\mu F$ )	(mA rms)	(mm)
160 (200) 2C	4.7	100	8×12
	5.6	107	8×12
	6.8	115	8×16
	8.2	189	8×16
	10	300	8×16
	15	350	8×16
	22	500	10×20
	33	650	10×20
	47	750	10×20
	68	1180	13×20
	100	1420	13×20
	150	1890	16×25
	220	2370	18×25
200 (250) 2D	3.3	112	6.3×12
	4.7	160	8×12
	5.6	190	8×12
	6.8	220	8×16
	8.2	279	8×16
	10	300	8×16
	10	320	10×16
	15	358	8×20
	22	500	10×16
		525	10×20
	33	650	10×20
	47	980	13×20
	68	1300	13×25
		1300	16×20
	82	1380	16×20
		1420	16×20
	100	1494	16×25
	1890	16×25	
150	1989	16×30	
250 (300) 2E	1	62	6.3×12
	1.5	66	6.3×12
	1.8	72	6.3×12
	2.2	81	6.3×12
	2.7	95	6.3×12
	3.3	112	6.3×12
	4.7	160	8×12
	5.6	190	8×12
	6.8	225	8×16
	8.2	288	8×20
	10	320	8×20
	15	420	8×20
	22	500	10×16
		550	10×20
	33	760	13×16
		800	13×20
	47	980	13×20
	56	1080	13×25
	68	1368	16×25
82	1500	13×30	
100	1610	16×30	
150	2000	16×35	

UR (Surge Voltage) Code	Rated Capacitance	Rated Ripple Current 105°C100kHz	Size $\phi D \times L$
(V)	( $\mu F$ )	(mA rms)	(mm)
350 (400) 2V	1	64	6.3×12
	1.5	75	8×12
	1.8	85	8×12
	2.2	95	8×12
	2.7	100	8×12
	3.3	118	8×12
	4.7	170	8×16
	5.6	200	8×16
	6.8	252	8×20
		252	10×16
	8.2	288	8×20
	10	320	8×20
		350	10×20
	15	450	10×20
	22	650	13×20
	33	855	13×20
		900	16×20
	47	1080	16×20
	68	1368	18×20
		1470	18×25
82	1530	18×25	
100	1700	18×30	

# GA 系列 SERIES

## ◆ STANDARD RATINGS

UR (Surge Voltage) Code	Rated Capacitance	Rated Ripple Current 105°C100kHz	Size φD×L
(V)	(μF)	(mA rms)	(mm)
400 (450) 2G	1	72	8×12
	1.5	90	8×12
		100	8×16
	1.8	95	8×12
		120	8×16
	2.2	100	8×12
		140	8×16
	2.7	145	8×16
	3.3	150	8×16
		180	10×16
	4.7	198	8×20
		220	10×16
	5.6	225	8×20
		250	10×16
	6.8	252	8×20
		265	10×16
	8.2	288	10×16
		294	10×20
	10	350	10×20
	15	550	13×20
22	760	13×25	
	760	16×20	
33	900	16×20	
	1125	16×25	
47	1180	16×30	
	1180	18×25	
56	1476	18×25	
68	1547	18×30	
100	1718	18×40	

UR (Surge Voltage) Code	Rated Capacitance	Rated Ripple Current 105°C100kHz	Size φD×L
(V)	(μF)	(mA rms)	(mm)
450 (500) 2W	1	82	8×12
	1.5	88	8×12
	1.8	90	8×12
	2.2	96	8×16
	2.7	119	8×16
	3.3	128	8×16
	4.7	180	10×16
	5.6	250	10×20
	6.8	265	10×20
	8.2	280	10×20
	10	330	10×25
	15	450	13×20
	22	600	13×25
		730	16×20
	33	980	16×25
	47	1080	16×35
		1200	18×25
	56	1429	18×30
68	1500	18×35	
100	1666	18×45	

Customer products are available on request