

## ■ ARF

### ARF Series Aluminum Electr



#### Feature

- \* : 105°C 5000  
Load life: 105°C 5000 hours.
- \*  
High ripple current.
- \* AEC-Q200  
Compliant to the AEC-Q200 Dire
- \* RoHS  
Compliant to the RoHS Directive



#### Application

- \*  
Ideally suited for automobile m

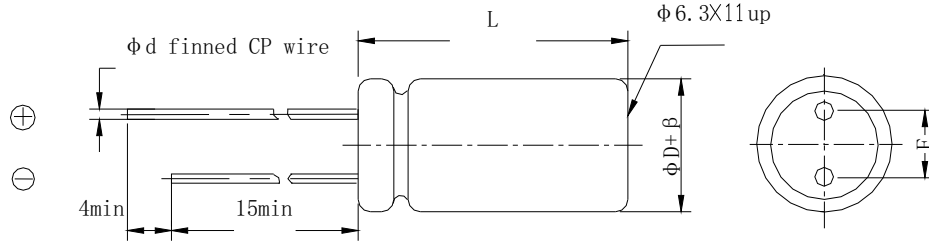


#### Part Number

8     220     LF  
②     ③

Code	Type
8	Product

Code	Voltage
LO	4
LA	6.3
LB	10
LC	16
LD	25
LE	35
LF	50
MC	200
VA	400

**Product Structure**


$\beta$ (mm)	$\pm 0.5$			$\pm 1.0$				
$\Phi D$ (mm)	5	6.3	8	10	12.5	16	18	22
$F \pm 0.5$ (mm)	2.	2.5	3.5	5.0		7.5		10.0
$\Phi d \pm 0.1$ (mm)	0.5		0.6			0.8		
L(mm)	11,12	12,16	12,16,	16,20,25	16,20,25,30,35	20,25,30,35,40	25,30,35,40	
	$L \pm 2.0$							

**Main specifications**

	Performance Characteristics	
Rated Voltage Range	6.3~100V.DC	160~500V.DC
Operating Temperature Range	-40 ~+105	-40 ~+105
Nominal Capacitance Range	100~15000 F	1~220 F
Capacitance Tolerance	$\pm 20\%$ M +25°C 120Hz	
Leakage Current (25°C)	Rated working voltage (V)	6.3~100      160~450
	Leakage current	$2 \leq I \leq 0.01CV$ 3( $\mu A$ ), After 2 min. $I \leq 0.01CV$ or 3( $\mu A$ ), Whichever is greater.
	$2 \leq I \leq 0.03CV+25(\mu A)$ After 2 min. $I \leq 0.03CV+25(\mu A)$	
	C $\mu F$ Nominal Capacitance in $\mu F$	
	V      V Rated working voltage in V	
DF Dissipation Factor	Rated working voltage (V)	6.3   10   16   25   35   50   63   100   160~450
	DF(MAX) (25 ,120Hz)	0.26   0.22   0.18   0.16   0.14   0.12   0.10   0.08   0.15
	1000 $\mu F$ 1000 $\mu F$ DF      0.02	
	For capacitance of more than 1000 $\mu F$ , add 0.02 for every increase of 1000 $\mu F$ .	

Surge Voltage	(V) Rated working voltage	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
	(V) Surge voltage	8	13	20	32	44	63	79	125	200	250	300	400	450	500
Temperature Stability															
Load life	<p>+105°C 5000 ,</p> <p>After application of rated working voltage with max permissible ripple current specified at +105°C for 5000hours, capacitors meet the characteristics requirements measured at +20°C listed at below:</p> <p>1                   :±20% Capacitance change : ±20% initial measured value</p> <p>2                   : ≤ Leakage current: ≤initial specified value</p> <p>3                   ≤200% Dissipation factor: ≤200% initial specified value</p>														
Shelf life	<p>+105°C 1000 , JIS-C-5101-4 30min,, 24 48</p> <p>:</p> <p>After leaving capacitors under no load at +105°C for 1000 hours, According to JIS-C-5101-4, apply the rated DC voltage for 30 minutes and store the capacitors under room temperature for 24-48 hours. The capacitors meet the characteristics listed as below:</p> <p>1                   :±20% Capacitance change : ±20% initial measured value</p> <p>2                   : ≤ Leakage current:≤initial specified value</p> <p>3                   ≤200% Dissipation factor: ≤200% initial specified value</p>														

◆  
**Dimensions and ripple current and frequency coefficient**

**Ripple current frequency coefficient**

WV(V) \ Freq Hz	50 (60)	100 (120)	1K	10K	≥100K
6.3~100	0.20	0.40	0.70	0.80	1.00
160~500	0.25	0.50	0.80	0.90	1.00





ΦD(mm) Diameter	L(mm) Length	Quantity / pcs/bag	/ bag/box	/ Inner box/outer box	( / ) psc/box
Φ10	9-13	500	6	4	12000
Φ10	14-16	250	8	4	8000
Φ10	17-20	250	8	4	8000
Φ10	25-30	200	8	4	6400
Φ10	31-35	200	6	4	4800
Φ12-Φ13	16-28	200	6	4	4800
Φ12-Φ13	30-40	100	8	4	3200