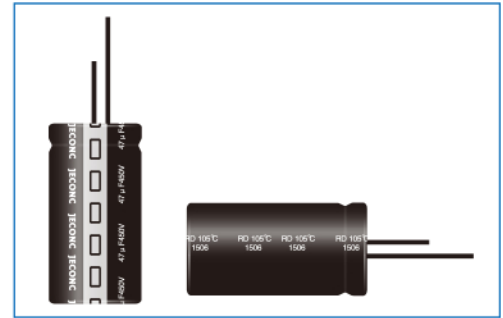


# RD 系列 SERIES

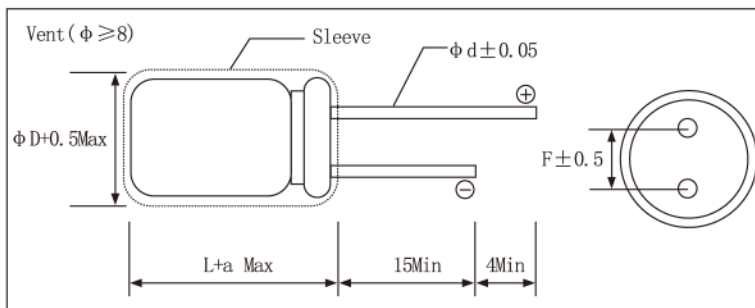
- 3000~5000 hours at 105°C
- high-reliability and professional applications
- RoHS Compliant



## ◆ SPECIFICATION

Items	Characteristics			
Operating Temperature Range(°C)	- 25 ~ +105° C			
Voltage range (V)	160V~500V			
Capacitance Range (μF)	2.2~330μF			
Capacitance Tolerance	±20% (at 20°C, 120Hz)			
leakage current (μA)	160 ~ 500V			
	After 5 minute's at 20°C application of rated voltage, leakage current is not more than 0.02CV+15μA			
Dissipation Factor(Tan δ)	WV (V)	160~250	350~400	≥450
	Tan δ (max)	0.12	0.15	0.17
Low Temperature Characteristics	Rated Voltage (V)	160~250	350~400	500
	Z-25°C/Z+20°C	4	6	8
	(at 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 3000~5000 hours			
	Capacitance change	Within ±20% initial value		Case Dia
	D. F. (Tan δ)	Not more than 200% of specified value		Life time(hours)
	leakage current	Not more than specified value		ΦD≤8
				ΦD=10
				ΦD>10
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°C without voltage applied .			
	Rated voltage	160 to 500V		
	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)



ΦD	8	10	13	16	18
F	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.6	0.6	0.8	0.8
a	1.5	1.5	1.5	2.0	2.0

## ◆ Frequency Coefficient

Frequency	50Hz	120Hz	300Hz	1kHz	10KHz	100KHz
Cap (μF)						
0.1~8.2	0.65	1.00	1.35	1.75	2.30	2.50
10~82	0.75	1.00	1.25	1.50	1.75	1.80
100~1000	0.80	1.00	1.15	1.30	1.40	1.50

## ◆ Temperature Coefficient

Temperature (°C)	+70	+85	+105
Coefficient	1.96	1.68	1.00

**RD** 系列  
SERIES

◆ STANDARD RATINGS

UR (Surge Voltage) Code	Rated Capacitance	Rated Ripple Current <sub>105°C 120Hz</sub>	Size $\Phi D \times L$
(V)	( $\mu F$ )	(mA rms)	(mm)
160 (200) 2C	10	125	8×12
	22	200	10×16
	33	250	10×20
	47	300	10×20
	68	470	13×20
	82	510	13×20
	100	620	13×25
	150	770	16×20
	220	1020	16×25
200 (250) 2D	330	1390	18×31.5
	10	125	10×12
	22	200	10×16
	33	260	10×20
	47	390	10×20
	68	470	13×20
	82	550	16×20
	100	630	16×25
	150	840	16×25
250 (300) 2E	220	1050	18×25
	330	1430	18×30
	10	140	10×12
	22	200	10×20
	33	320	13×20
	47	390	13×20
	68	520	16×20
	82	550	16×25
	100	680	16×25
350 (400) 2V	150	860	18×25
	220	1130	18×31.5
	6.8	110	10×16
	10	140	10×16
	22	260	13×20
	33	360	16×20
	47	430	16×20
	68	560	16×25
	82	610	18×25
100	700	18×25	
150	960	18×35.5	

UR (Surge Voltage) Code	Rated Capacitance	Rated Ripple Current <sub>105°C 120Hz</sub>	Size $\Phi D \times L$
(V)	( $\mu F$ )	(mA rms)	(mm)
400 (450) 2G	1	22	6.3×12
	2.2	35	8×12
	3.3	50	8×12
	4.7	75	8×12
	6.8	110	10×16
	10	140	10×16
	15	220	13×20
	22	260	13×20
	33	360	16×20
	47	470	16×25
		450	18×20
	68	585	18×25
	82	610	18×25
	100	765	18×31.5
	120	865	18×35.5
450 (500) 2W	150	985	18×40
	2.2	35	8×12
	3.3	50	8×12
	4.7	75	10×16
	6.8	110	10×20
	10	180	13×20
	15	240	13×25
	22	290	13×25
	33	390	16×25
	47	380	18×20
		480	18×25
	68	630	18×31.5
	82	715	18×31.5
	100	800	18×40
	500 (550) 2H	2.2	49
3.3		68	10×20
4.7		84	13×20
10		145	13×25
22		230	16×25
33		295	16×31.5
47		415	18×31.5
68		530	18×35.5
82		590	18×40

Customer products are available on request