

RQ Series

+105°C, Pen Type (铅笔型), Long Life (长寿命)

◆ FEATURES

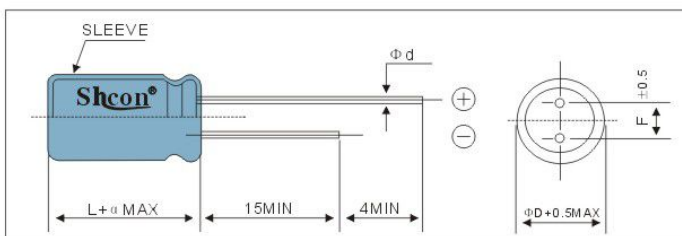
- For long life design.
- Life 10000 hours at +105°C
- Φ10-Φ18 with large permissible ripple current.



◆ SPECIFICATIONS

Items	Characteristics			
Category Temperature Range	-25°C~+105°C			
Rated Voltage Range	400~450V.DC			
Nominal Capacitance Range	27~220 µF			
Capacitance Tolerance	±20%(120Hz,+20°C)			
Leakage Current(MAX)	I=0.02CV + 10(µA) after 2 minutes with rated working voltage			
Dissipation Factor(MAX) Tan δ(+20°C,120Hz)	Rated Voltage(V)	400	420	450
	Tan δ	0.24	0.24	0.24
Load Life	After applying rated voltage with max ripple current for 10000 hrs at 105°C, the capacitors shall meet the following requirements			
	Capacitance Change	Within ±20% of the initial value		
	Dissipation Factor	Not more than 200% of the specified value		
Shelf Life	After leaving capacitors under no load at 105°C for 1000hrs, they meet the characteristic requirements listed at right			
	Capacitance change	Within ±20% of the initial value		
	Tan δ	≤200% of initial specified value		
Low Temperature Stability Impedance Rate(MAX)	Rated Voltage(V)	400	420	450
	Z-25°C/Z+20°C	6	6	6
Others	JISC-5141 EIAJRC-2372			

◆ CASE SIZE TABLE



Φ D	10	13	16	18
F	5.0	5.0	7.5	7.5
Φ d				
α	α = 2.0			

◆ RIPPLE CURRENT MULTIPLIER

Cap(µ F)	Frequency(Hz)				
	50	120	500	1K	10K~
~270	0.80	1.00	1.25	1.45	1.50

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◆ STANDARD RATINGS

Voltage (code)		400(2G)				420(2P)				450(2W)			
		Φ10	Φ13	Φ16	Φ18	Φ10	Φ13	Φ16	Φ18	Φ10	Φ13	Φ16	Φ18
Cap(μF)	Code	ΦD											
27	270	10x30				10x30				10x30			
		300				300				300			
33	330	10x30				10x30				10x35			
		330				330				340			
39	390	10x35				10x30				10x40			
		370				370				390			
47	470	10x40				10x40				10x45			
		430				430				440			
53	530									10x50			
										470			
55	550	10x45	10x30			10x50	10x30				13x35		
		480	470			490	470				490		
68	680	10x50	13x35				13x35				13x40		
		520	540				540				560		
82	820		13x40				13x45				13x45		
			620				630				630		
100	101		13x50				13x50					16x35	
			730				710					730	
120	121			16x35				16x35				18x40	
				800				780				820	
150	151			16x40				14x45	18x35			16x50	18x40
				920				940	920			980	970
180	181			16x50	18x40			16x50	18x40				18x45
				1080	1060			1080	1060				1090
220	221				18x45				18x50				18x50
					1200				1220				1220
270	271	— Upper: Case size ΦDxL(mm) — Lower: Ripple Current (Arms) at 105℃ 120Hz											

