

RM Series

+105°C, LongLife(长寿命品)

◆ FEATURES

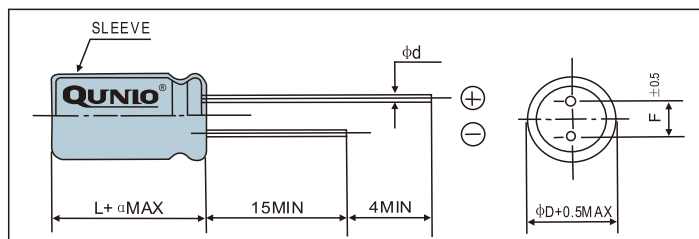
- Load life:105°C 3000~8000 hours

◆ SPECIFICATIONS



Items	Characteristics									
Category Temperature Range	-40°C~+105°C									
Rated Voltage Range	6.3~100V.DC									
Nominal Capacitance Range	0.1~22000 μ F									
Capacitance Tolerance	±20%(120Hz,+20°C)									
Leakage Current(MAX,+20°C)	I=0.01CV or 3(uA) after 2 minutes with rated working voltage									
Dissipation Factor(MAX) Tan δ (+20°C,120Hz)	Rated Voltage(V)	6.3	10	16	25	35	50	63	100	
	Tan δ	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	
When nominal capacitance is over 1000 μ F, tan δ shall be added 0.02 to the listed value with increase of every 1000 μ F										
Load Life	After applying rated voltage with max ripple current for 3000~7000 hrs at 105°C,the capacitors shall meet the following requirements									
	Capacitance Change	Within ±20% of the initial value							ΦD	Load life
	Dissipation Factor	Not more than 200% of the specified value							Φ5~6.3	3000
	Leakage Current	Not more than the specified value							Φ8~10	5000
Shelf Life	After leaving capacitors under no load at 105°C for 1000hrs,they meet the characteristic requirements listed at right									
	Capacitance Change	Within ±25% of the initial value							Φ12.5~	8000
	Tan δ	≤ 200% of initial specified value								
Low Temperature Stability Impedance Rate(MAX)	Rated Voltage(V)	6.3	10	16	25	35	50	63	100	
	Z-25°C/Z+20°C	5	4	3	2	2	2	2	2	
	Z-40°C/Z+20°C	10	8	6	4	3	3	3	3	

◆ CASE SIZE TABLE



φ D	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φ d	0.5			0.6		0.8	
α	L ≤ 16 α = 1.5				L ≥ 20: α = 2.0		

◆ RIPPLE CURRENT MULTIPLIER

Rated Voltage(v)	Cap (μ F)	Frequency(Hz)				
		50	120	300	1K	10K~
6.3~100	≤47	0.75	1.0	1.35	1.57	1.15
	56~470	0.8	1.0	1.23	1.34	1.5
	≥560	0.85	1.0	1.10	1.13	2.0

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◆ STANDARD RATINGS

size: $\Phi D \times L$ (mm)

Voltage		6.3V		10V		16V		25V		35V		50V		63V	
Cap(μ F)	Code	OJ		1A		1C		1E		1V		1H		1J	
0.1	0R1											5×11	1		
0.22	R22											5×11	3		
0.33	R33											5×11	4		
0.47	R47											5×11	8		
1	010											5×11	14		
2.2	2R2											5×11	22		
3.3	3R3											5×11	33		
4.7	4R7							5×11	28	5×11	30	5×11	41	5×11	44
10	100					5×11	39	5×11	41	5×11	44	5×11	59	5×11	65
22	220	5×11	47	5×11	53	5×11	58	5×11	62	5×11	74	6.3×11	99	6.3×11	96
33	330	5×11	57	5×11	62	5×11	66	5×11	83	5×11	88	6.3×11	127	8×12	160
47	470	5×11	67	5×11	73	5×11	88	5×11	92	6.3×11	132	6.3×11	146	8×12	191
100	101	5×11	103	5×11	116	6.3×11	138	6.3×11	175	8×12	220	8×12	252	10×13	276
220	221	6.3×11	191	6.3×11	212	8×12	279	8×12	314	10×13	374	10×16	560	10×20	554
330	331	6.3×11	238	8×12	313	8×12	347	10×13	433	10×16	512	10×20	756	13×21	757
470	471	8×12	337	8×12	373	10×13	466	10×16	575	10×20	664	13×21	881	13×25	987
1000	102	10×13	564	10×16	698	10×20	825	13×21	1024	13×25	1241	16×25	1626	18×30	1843
2200	222	13×21	1019	13×21	1105	13×25	1344	16×25	1639	16×30	1783	18×35	2212	18×40	2079
3300	332	13×21	1287	13×25	1462	16×25	1755	16×30	1960	18×35	2274	22×40	2828		
4700	472	16×25	1784	16×25	1885	16×30	2072	18×35	2530	18×40	2875				
6800	682	16×25	1964	16×30	2172	18×35	2743	22×40	3216						
10000	103	16×30	2259	18×35	2610	18×40	3127								
12000	123	16×35	2306	18×35	2859	22×40	3757								
15000	153	18×35	2752	18×40	2711										
18000	183	22×35	3049	22×40	3132										
22000	223	22×40	3074												

Maximum Allowable Ripple Current(mA rms) at 105°C 120Hz

◆ STANDARD RATINGS

Voltage		100V													
Cap(μ F)	Code	2A													
1	010	5×11	18												
2.2	2R2	5×11	23												
3.3	3R3	5×11	37												
4.7	4R7	5×11	44												
10	100	6.3×11	67												
22	220	8×12	121												
33	330	10×13	183												
47	470	10×16	243												
100	101	13×21	435												
220	221	16×25	837												
330	331	16×25	1011												
470	471	16×30	1179												
1000	102	18×40	2222												

Maximum Allowable Ripple Current(mA rms) at 105°C 120Hz

RIM