

FEATURES

- Temperature range (-40°C ~ +85°C).
NON-POLAR, 7mm height
- Load life 1,000 hours @ 85°C)
RoHs COMPLIANT

PART NUMBERING

Part Number Example: RN7-010/220M5X7F							
RN7	-	010	/	220	M	5X7	F
Type		Rated Voltage		Capacitance Code (μF)*	Tolerance Code	Size	RoHs Compliant

* Capacitance Code: First two digits represent significant figures, third digit represents multiplier (number of zeros).

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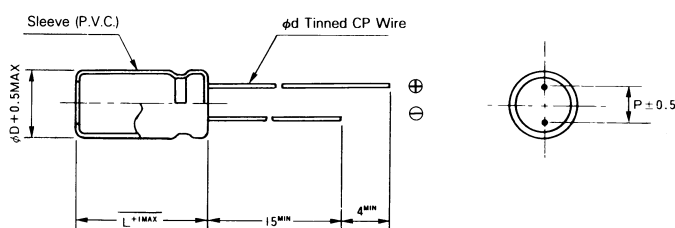
SPECIFICATIONS

Operating Temperature Range	-40°C ~ +85°C						
Rated Voltage Range	6.3 ~ 50v non-polar						
Capacitance Range	0.1 ~ 220μF						
Capacitance Tolerance	±20% (120Hz 20°C)						
Leakage Current Max	I = 0.05 CV or 10 μA whichever is greater after 2 minutes @ rated voltage						
DF (%) @ +20°C 120Hz max	Working Voltage	6.3	10	16	25	35	50
	DF (%)	22	20	16	16	14	12
Low Temperature Characteristics Impedance Ratio Max @ 120Hz	Working Voltage	6.3	10	16	25	35	50
	Z-25°C / Z+20°C	4	3	2	2	2	2
	Z-40°C / Z+20°C	8	6	4	4	3	3
Load Life 1,000Hrs @ 85°C and rated voltage	Cap change	≤ ±20% of Initial measured value ≤200% of Initial measured value ≤ Initial measured value					
	DF						
Shelf Life 1,000Hrs @ 85°C	Cap change	≤ ±20% of Initial measured value ≤200% of Initial measured value ≤ Initial measured value					
	DF						

MULTIPLIER FOR RIPPLE CURRENT VS FREQ.

FREQUENCY (Hz)	50(60)	120	400	1K	10K	50-100K
≤10μF	0.8	1	1.3	1.45	1.65	1.7
>10 ≤100μF	0.8	1	1.23	1.36	1.48	1.53
>100μF	0.8	1	1.16	1.25	1.35	1.38

DIMENSIONS



DIMENSIONS (UNIT: mm)

Diam	4	5	6.3	8
F	1.5±.5	2±.5	2.5±.5	3.5±.5
Φ	0.45			0.5

CAP. (μ F)	6.3 v Surge 8v		10 v Surge 13v		16 v Surge 20v		25 v Surge 32v		35 v Surge 44v		50 v Surge 63v	
	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE
0.1											4X7	1.0
0.22											4X7	2.3
0.33											4X7	3.5
0.47											4X7	5
1											4X7	10
2.2									4X7	13	4X7	14
											5X7	16
3.3							4X7	14	4X7	15	4X7	18
									5X7	16	5X7	20
4.7					4X7	18	4X7	18	5X7	22	6.3X7	27
							5X7	21				
10	4X7	23	4X7	24	4X7	25	6.3X7	35	6.3X7	37	8X7	44
					5X7	30						
22	5X7	30	5X7	38	6.3X7	51	6.3X7	53	8X7	58	8X7	60
33	5X7	40	6.3X7	55	6.3X7	60	8X7	70	8X7	73		
47	6.3X7	56	6.3X7	65	6.3X7	73	8X7	80				
100	8X7	92	8X7	105	8X7	120						
220	8X7	135										

RIPPLE CURRENT mA @ 120Hz 85°C