

Aluminium Electrolytic Capacitors with Radial Connections



Super Miniature and Low leakage current

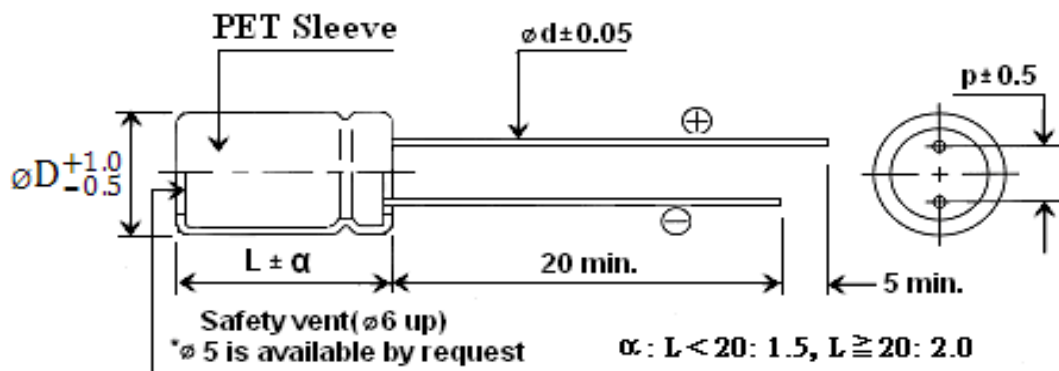
Designed for use in VCRs, car radios, car stereos, micro-cassette tape recorders, pocket calculators and watches

SPECIFICATION:

Capacitance tolerance	±20%
Construction	Radial

Characteristics

Voltage Range	6.3 to 100 VDC				160 to 450 VDC				
Capacitance Range	0.47 to 10000uF				0.47 to 470uF				
Temperature Range	-40 to +85°C				-25 to +85°C				
Capacitance Tolerance	±20% at 120Hz, 20°C (10% Tol. is available upon request)								
Leakage Current	I ≤ 0.01CV or 3uA, whichever is greater 2 minutes after Rated Voltage applied				I ≤ 0.03CV or 3uA, whichever is greater 3 minutes after Rated Voltage applied				
Dissipation Factor (tanδ)	Rated Voltage (V)	6.3	10	16			50	63	
	Dissipation Factor(tanδ)max	0.22	0.19	0.16	0.14	0.12	0.10		
	Rated Voltage (V)	100	160	200	250	350	400	450	
	Dissipation Factor(tanδ)max	0.08	0.16	0.18	0.18	0.20	0.20	0.20	
For capacitance > 1000uF, add 0.02 for every 1000uF, (at 20°C, 120Hz)									
Stability at Low Temperature (For Cap. > 1000uF, add 0.5 per 1000uF(-25°C/+20°C) add 1.0 per 1000uF(-40°C/+20°C))	Impedance ration at 120Hz								
	Rated Voltage (V)	6.3	10	16	25		50		100
	Z-25°C/Z 20°C	4		2	2	2	2	2	
	Z-40°C/Z 20°C	8		4	4	3	3	3	3
	Rated Voltage (V)	160	200		350	400	450		
Z-25°C/Z 20°C	2	2	3	5	15	15			
Load Life	After the rated voltage has been applied for 2000 hours at 85°C	Capacitance change			Within ±20% of initial value				
		D.F. tanδ			200% or less of initial specified value				
		Leakage current			Less than Initial specified value				
Shelf Life	After storage for 1000 hours at 85°C with no voltage applied, the capacitor shall meet the specified limit in load life. Pre-treatment for measurement shall be conducted after application of DC working voltage for 30 minutes.								



Drawing

D ϕ	5	6.3	8	10	13	16	18	22
p	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10
d ϕ	0.5	0.5	0.5	0.6	0.6	0.8	0.8	0.8

Ripple Current Coefficients

Frequency (Hz)	50(60)	120	400	1K	10K	100K
Cap.(μ F) / Hz	Multiplier					
Cap. ≤ 10	0.8	1	1.30	1.45	1.65	1.70
10 < Cap. ≤ 100	0.8	1	1.23	1.36	1.48	1.53
	0.8	1	1.16	1.25	1.35	1.38
1000 < Cap.	0.8	1	1.11	1.17	1.25	1.28

PRODUCT RANGE:

Art. Nr.	Capacitance	Rated voltage	Dimensions $\varnothing \times L$	Pitch
RND 150EMR010M50B	1 μ F	50 V	4 x 7 mm	1.5 mm
RND 150EMR100M16B	10 μ F	16 V	4 x 7 mm	1.5 mm
RND 150EMR100M25B	10 μ F	25 V	4 x 7 mm	1.5 mm
RND 150EMR100M50B	10 μ F	50 V	5 x 7 mm	2 mm
RND 150EMR101M16B	100 μ F	16 V	6.3 x 7 mm	2.5 mm
RND 150EMR220M16B	22 μ F	16 V	4 x 7 mm	1.5 mm
RND 150EMR220M25B	22 μ F	25 V	5 x 7 mm	2 mm
RND 150EMR2R2M50B	2.2 μ F	50 V	4 x 7 mm	1.5 mm
RND 150EMR330M16B	33 μ F	16 V	4 x 7 mm	1.5 mm
RND 150EMR330M25B	33 μ F	25 V	5 x 7 mm	2 mm
RND 150EMR3R3M50B	3.3 μ F	50 V	4 x 7 mm	1.5 mm
RND 150EMR470M16B	47 μ F	16 V	5 x 7 mm	2 mm
RND 150EMR4R7M50B	4.7 μ F	50 V	4 x 7 mm	1.5 mm
RND 150EMRR47M50B	0.47 μ F	50 V	4 x 7 mm	1.5 mm