

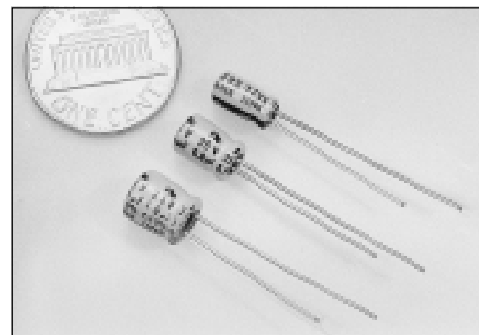
SUBMINIATURE, LOW-LEAKAGE CURRENT, RADIAL LEAD, POLARIZED

FEATURES

- LOW PROFILE, 7mm HEIGHT
- LOW COST REPLACEMENT FOR MANY TANTALUM APPLICATIONS
- LOW LEAKAGE CURRENT & LOW NOISE
- STABLE & HIGH PERFORMANCE

CHARACTERISTICS

Rated Voltage Range	6.3 ~ 50 VDC						
Capacitance Range	0.1 ~ 100μF						
Operating Temperature Range	-40° ~ +85°C						
Capacitance Tolerance	(M) ± 20% or (K) ± 10%						
Max. Leakage Current @ (20°C) after 2 min.	0.002CV or 0.4μA, whichever is greater						
Max. Tan δ @ 120Hz/20°C	W.V. (Vdc)	6.3	10	16	25	35	50
	S.V. (Vdc)	8	13	20	32	44	63
	Tan δ	0.20	0.18	0.16	0.14	0.12	0.10
Low Temperature Stability Impedance Ratio @ 120Hz	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 Test at Rated W.V. & 85°C 1,000 Hours	Capacitance Change	Within ±20% of initial measured value					
	Tan δ	Less than 200% of specified maximum value					
	Leakage Current	Less than specified maximum value					



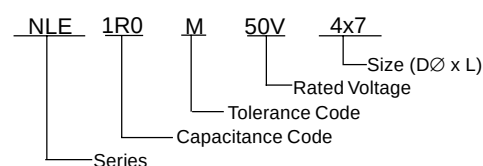
MAXIMUM PERMISSIBLE RIPPLE CURRENT (mA rms AT 120Hz AND 85°C)

Cap. (μF)	Working Voltage (Vdc)					
	6.3	10	16	25	35	50
0.1						1.0
0.22						2.3
0.33						3.5
0.47						5.0
1.0						10
2.2						19
3.3						24
4.7					24	29
10			29	33	36	44
22	34	38	44	51	57	
33	42	47	57	63		
47	50	59	68			
100	77	82	95			

MAXIMUM E.S.R. (Ω AT 20°C AND 120Hz)

Cap. (μF)	Working Voltage (Vdc)					
	6.3	10	16	25	35	50
0.1						1660
0.22						755
0.33						503
0.47						353
1.0						166
2.2						75.5
3.3						50.3
4.7					42.3	35.3
10			25.6	23.2	19.9	16.6
22	18.1	15.1	12.1	10.6	9.05	
33	12.1	10.1	8.05	7.04		
47	8.47	7.06	5.65			
100	3.98	3.32	2.26			

PART NUMBERING SYSTEM

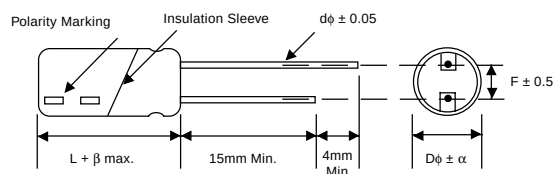


STANDARD PRODUCTS AND CASE SIZE TABLE: D ϕ x L (mm)

Cap.(μ F)	Code	Working Voltage (Vdc)					
		6.3	10	16	25	35	50
0.1	R10						4 x 7
0.22	R22						4 x 7
0.33	R33						4 x 7
0.47	R47						4 x 7
1.0	1R0						4 x 7
2.2	2R2						4 x 7
3.3	3R3						4 x 7
4.7	4R7				4 x 7	4 x 7	5 x 7
10	100			4 x 7	5 x 7	5 x 7	6.3 x 7
22	220	4 x 7	5 x 7	5 x 7	6.3 x 7	6.3 x 7	
33	330	5 x 7	5 x 7	6.3 x 7	6.3 x 7		
47	470	5 x 7	6.3 x 7	6.3 x 7	6.3 x 7		
100	101	6.3 x 7	6.3 x 7	6.3 x 7			

LEAD SPACING AND DIAMETER (mm)

Case Dia. (D ϕ)	4	5	6.3
Leads Dia. (d ϕ)	0.45	0.45	0.45
Lead Spacing (F)	1.5	2.0	2.5
Dim. α	0.5	0.5	0.5
Dim. β	1.0	1.0	1.0



SLEEVE COLOR: LIGHT GREEN