

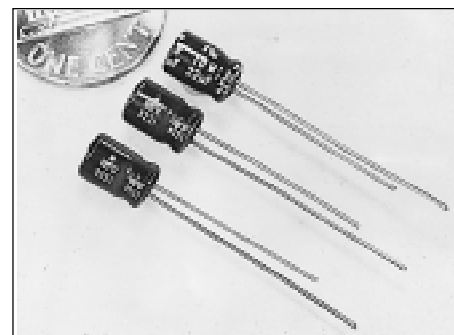
SUPER-MINIATURE, RADIAL LEADS, POLARIZED

FEATURES

- STABLE AND HIGH PERFORMANCE IN LOW PROFILE (7mm) HEIGHT
- GOOD 100Khz PERFORMANCE CHARACTERISTICS
- WIDE TEMPERATURE -55 TO + 105°C

CHARACTERISTICS

Rated Working Voltage Range	6.3 ~ 50Vdc						
Capacitance Range	0.1 ~ 330 μ F						
Operating Temperature Range	-55°C~+105°C						
Capacitance Tolerance	+20% (M)						
Max. Leakage Current After 1 minutes At 20°C	0.01CV or 3 μ A Whichever is greater						
Surge Voltage & Dissipation Factor (Tan δ)	W.V. (Vdc)	6.3	10	16	25	35	50
	S.V. (Vdc)	8	13	20	32	44	63
	Tan δ @ 120Hz	0.24	0.21	0.18	0.14	0.12	0.10
Low Temperature Stability (Impedance Ratio @ 120Hz)	W.V. (Vdc)	6.3	10	16	25	35	50
	Z-40°C/Z+20°C	4	3	2	2	2	2
	Z-55°C/Z+20°C	6	5	4	3	3	3
Life Test @ +105°C 1,000 hours	Capacitance Change	Within $\pm$ 25% of initial value					
	Dissipation Factor	Less than 200% of specified maximum value					
	Leakage Current	Less than specified maximum value					



MAXIMUM PERMISSIBLE RIPPLE CURRENT (mA rms) AT 100Khz AND 105°C

Cap(μ F)	Working Voltage (Vdc)					
	6.3	10	16	25	35	50
0.1						10
0.22						10
0.33						15
0.47						20
1.0						30
2.2						35
3.3						40
4.7				50	40	70
10			50	85	70	100
22	50	85	85	120	100	100
33	85	85	120	120	100	100
47	85	120	120	120	100	100
100	120	120	120	120	100	
220	120	120	120			
330	120					

STANDARD PRODUCTS AND CASE SIZE TABLE D ϕ x L

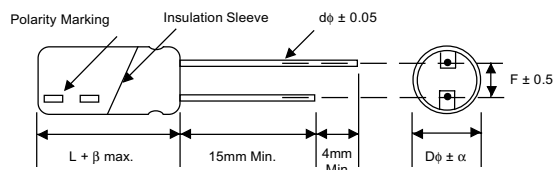
Cap(μ F)	Code	Working Voltage (Vdc)					
		6.3	10	16	25	35	50
0.1	R10						4 x 7
0.22	R22						4 x 7
0.33	R33						4 x 7
0.47	R47						4 x 7
1.0	1R0						4 x 7
2.2	2R2						4 x 7
3.3	3R3						4 x 7
4.7	4R7				4 x 7	4 x 7	5 x 7
10	100			4 x 7	5 x 7	5 x 7	6.3 x 7
22	220	4 x 7	5 x 7	5 x 7	6.3 x 7	6.3 x 7	6.3 x 7
33	330	5 x 7	5 x 7	6.3 x 7	6.3 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	6.3 x 7	6.3 x 7
100	101	6.3 x 7	6.3 x 7	6.3 x 7	6.3 x 7	6.3 x 7	
220	221	6.3 x 7	6.3 x 7	6.3 x 7			
330	331	6.3 x 7					

MAXIMUM E.S.R. (Ω) AT 20°C AND 100 KHz

Cap(μ F)	Working Voltage (Vdc)					
	6.3	10	16	25	35	50
0.1						30.0
0.22						16.0
0.33						13.0
0.47						12.0
1.0						10.0
2.2						7.8
3.3						6.2
4.7				4.2	6.0	3.1
10			4.2	2.0	3.1	1.6
22	4.2	4.2	2.0	1.2	1.6	1.6
33	2.0	2.0	1.2	1.2	1.6	1.6
47	2.0	1.2	1.2	1.2	1.6	1.6
100	1.2	1.2	1.2	1.5	1.6	
220	1.2	1.2	1.2			
330	1.2					

LEAD SPACING AND DIAMETER

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: DARK BROWN

Frequency (Hz)		120	1K	10K	100K
Correction Factor	4 x 7mm	0.50	0.70	0.93	1.00
	5 x 7mm	0.60	0.80	0.93	1.00
	6.3 x 7mm	0.70	0.85	0.93	1.00

