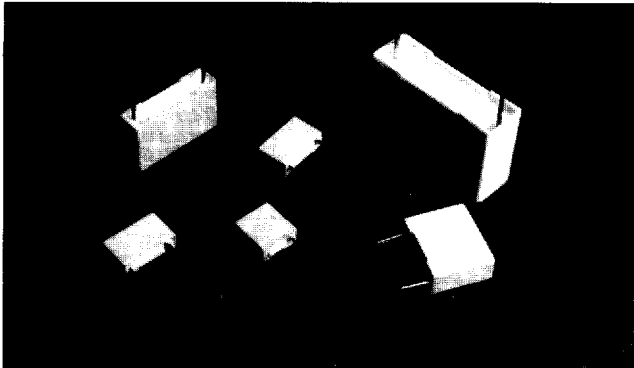


Radial Leaded Capacitors  
Metallized Polyester Dielectric  
Preformed Case with Epoxy Fill

A-05-17-05

Type RBEN, RBEO, RBEP



Insulation Resistance		
Category	<100VDC	≥100VDC
MegOhms x $\mu$ F	1,000	1,000
MegOhms Maximum (Need Not Exceed)		
RBEN	10,000	10,000
RBEO, RBEP	10,000	30,000
Test Voltage	50VDC	100VDC
Electrification Time	1 Minute	1 Minute

**Physical**

- Dielectric Material • Polyester (metallized)
- Electrode Material • Vapor deposited aluminum
- Winding Construction • Non-inductive, extended metallized film
- Lead Material • Tinned wire
- Enclosure • Preformed case with epoxy fill.
- Component Marking • Capacitance value, tolerance, and rated voltage
- Temperature Range • -55°C to 125°C  
-55°C to 85°C at rated voltage  
From 85°C to 125°C derate DC voltage rating 1.25%/°C, AC voltage 1.5%/°C.
- Temperature Coef. •  $\pm 5\%$  from -40°C to 85°C
- Flame Retardancy • Units meet standard industry requirements when tested as specified per IEC 695-2-2 and UL 94 VO.
- Packaging • Tape & ammo pack (RBEN)  
• Bulk, tape, ammo pack (RBEO)  
• Bulk (RBEP)

**Electrical**

- Capacitance Range • .0010 $\mu$ F to 10.0 $\mu$ F @ 1KHz
- Tolerance •  $\pm 5\%$  (J)
- Voltage Range • 63VDC to 100VDC (RBEN)  
• 63VDC to 630VDC (RBEO, RBEP)
- Dissipation Factor •  $\leq 0.8\%$  @ 1KHz
- Dielectric Strength • 1.6 x rated VDC for 2 seconds
- Dielectric Absorption • 0.3% typical
- Insulation Resistance • See table

**Long Term Stability**

+2.0% over two years at a temperature of between 20°C & 40°C and a RH of between 40% and 60%.

**Performance Testing**

**Accelerated Dry Life:**

- Test Conditions
  - Temperature • 85°C  $\pm$  5.0°C
  - Applied Voltage • 1.25 x rated DC voltage
  - Test Duration • 1000 hours
- Performance Requirements
  - Capacitance • delta of  $\leq 5.0\%$
  - Dissipation Factor •  $\leq 1.0\%$  @ 1KHz
  - Insulation Resistance •  $\geq 50\%$  of initial limit

**Humidity:**

- Test Conditions
  - Temperature • 40°C  $\pm$  2.0°C
  - Applied Voltage • Zero Voltage
  - Humidity • 93%  $\pm$  2% RH
  - Test Duration • 500 hours
- Performance Requirements
  - Capacitance • delta of  $\leq 5.0\%$
  - Dissipation Factor •  $\leq 1.0\%$  @ 1KHz
  - Insulation Resistance •  $\geq 50\%$  of initial limit

**Resistance To Solder Heat:**

- Test Conditions
  - Solder Temperature • 260°C  $\pm$  5.0°C
  - Test Duration • 10 seconds  $\pm$  1 second
- Performance Requirements
  - Capacitance • delta of  $\leq 2.0\%$

**Lead Pull:**

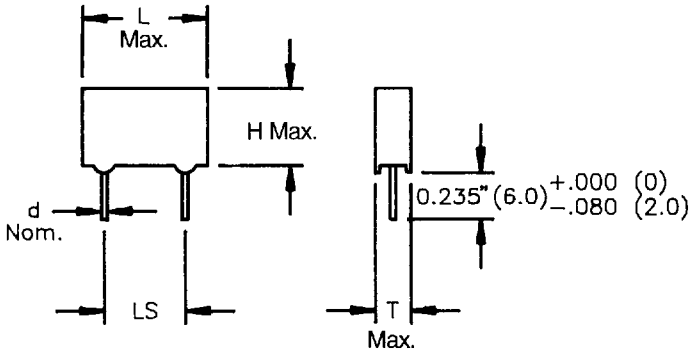
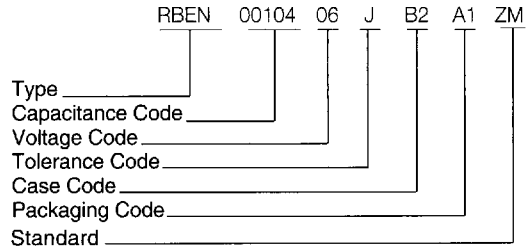
Must withstand a tensile force of 5 lbs applied to each lead for 5 seconds.

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Type RBEN

Part Numbering System

Example: 0.10µF 63VDC ±10% Ammo Pack



Capacitance		Code 06	Code 10
		63VDC	100VDC
µF	Code	Case Code	Case Code
0.0010	00102		A2
0.0015	00152		A2
0.0022	00222		A2
0.0033	00332		A2
0.0047	00472		A2
0.0068	00682		A2
0.010	00103		A2
0.015	00153		A2
0.022	00223		A2
0.033	00333		A2
0.047	00473		A2
0.068	00683	A2	
0.10	00104	B2	
0.15	00154	D2	
0.22	00224	D2	
0.33	00334	F2	
0.47	00474	G2	
0.68	00684	H2	

Case Code	Inches					AWG
	T Max	H Max	L Max	L.S. ±.016	d Nom	
A2	0.098	0.256	0.284	.197	.020	#24
B2	0.138	0.335	0.284	.197	.020	#24
C2	0.138	0.295	0.284	.197	.020	#24
D2	0.118	0.256	0.284	.197	.020	#24
F2	0.177	0.374	0.284	.197	.020	#24
G2	0.197	0.394	0.284	.197	.020	#24
H2	0.236	0.433	0.284	.197	.020	#24

Case Code	Millimeters					AWG
	T Max	H Max	L Max	L.S. ±.4	d Nom	
A2	2.5	6.5	7.2	5	.5	#24
B2	3.5	8.5	7.2	5	.5	#24
C2	3.5	7.5	7.2	5	.5	#24
D2	3.0	6.5	7.2	5	.5	#24
F2	4.5	9.5	7.2	5	.5	#24
G2	5.0	10.0	7.2	5	.5	#24
H2	6.0	11.0	7.2	5	.5	#24

