

BPR

NON-POLAR RADIAL LEAD ALUMINUM ELECTROLYTIC CAPACITORS

SPECIFICATIONS

Capacitance Range:

.47 Mfd. to 470 Mfd.

Voltage Range:

16WVDC to 50WVDC

Capacitance Tolerance:

± 20% (M) Standard

± 10% (K) Optional

Leakage Current:

≤ .03 CV or 3 μ A min.

Operating Temperature:

-40°C to +85°C

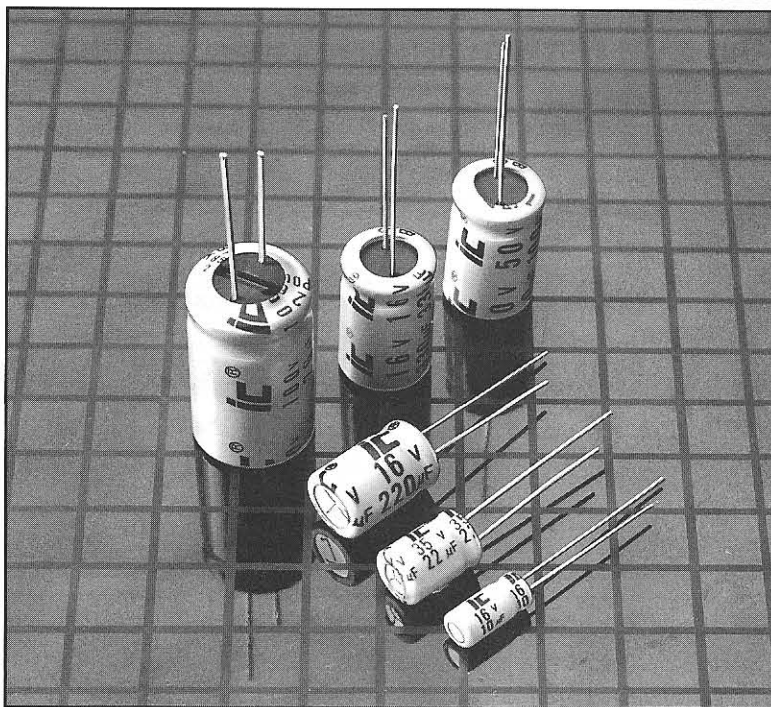
Storage Temperature:

-55°C to +85°C

SPECIAL ORDER OPTIONS

- Epoxy End Seal
- Tape & Reel
- Tape—Ammo (flat) pack
- MYLAR® Polyester Sleeve
- Cut Leads
- Special Tolerances: ± 10% (K)

SUPERSEDED BY
BPS SERIES



APPLICATIONS

ic type BPR radial lead non-polar aluminum electrolytic capacitors are used for audio coupling and crossovers. They are useful in circuit designs susceptible to voltage of unknown polarity, polarity reversal, low power AC. Type BPR features a +85°C design max. operating temperature and leakage current of .03 CV or 3 μ A min. Designed for PC mounting, type BPR offers long life reliability with high performance specifications. Type BPR is an excellent cost effective choice for new designs and replacements applications.

**ENVIRONMENTAL PERFORMANCE
AND ENDURANCE TEST RATE
GRAPHS ON PAGES 82-83**



ILLINOIS CAPACITOR, INC.

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THE SOURCE FOR QUALITY, PERFORMANCE AND DELIVERY.



BPR

Non Polar Radial Aluminum Electrolytic Capacitors

STANDARD PART LISTING

STANDARD PART LISTING: Tolerance $\pm 20\%$ (M) Standard

iC PART NUMBER	Capacitance MFD.	WVDC (SVDC)	Maximum Dissipation Factor (tan δ) 120Hz, +25°C	Maximum ESR Ω 120Hz, +25°C	Leakage Current (μ A) @ 5min, +25°C	RMS Ripple Current (mA) 120Hz, +85°C	PHYSICAL DIMENSIONS in/mm			
							Case Diameter	Case Length	Lead Spacing	Lead Thickness
474BPR050MXXAF	0.47	50(63)	.12	339	3.0	13	.197 5.0	.433 11.0	.079 2.0	.020 0.5
105BPR050MXXAF	1.0	50(63)	.12	159	3.0	19	.197 5.0	.433 11.0	.079 2.0	.020 0.5
225BPR050MXXAF	2.2	50(63)	.12	72	3.3	28	.197 5.0	.433 11.0	.079 2.0	.020 0.5
335BPR050M	3.3	50(63)	.12	48	5.0	34	.248 6.3	.433 11.0	.098 2.5	.024 0.6
475BPR035M	4.7	35(44)	.14	40	5.0	38	.197 5.0	.433 11.0	.079 2.0	.020 0.5
475BPR050MXXBF	4.7	50(63)	.12	34	7.0	43	.248 6.3	.433 11.0	.098 2.5	.024 0.6
106BPR016M	10	16(20)	.16	21	4.8	40	.197 5.0	.433 11.0	.079 2.0	.020 0.5
106BPR035M	10	35(44)	.14	19	11	55	.248 6.3	.433 11.0	.098 2.5	.024 0.6
106BPR050M	10	50(63)	.12	16	15	75	.315 8.0	.453 11.5	.138 3.5	.024 0.6
226BPR016M	22	16(20)	.16	9.6	11	66	.248 6.3	.433 11.0	.098 2.5	.024 0.6
226BPR035M	22	35(44)	.14	8.4	23	98	.315 8.0	.453 11.5	.138 3.5	.024 0.6
226BPR050M	22	50(63)	.12	7.2	33	121	.394 10.0	.492 12.5	.197 5.0	.024 0.6
336BPR025M	33	25(32)	.16	6.4	25	111	.315 8.0	.453 11.5	.138 3.5	.024 0.6
336BPR035M	33	35(44)	.14	5.6	35	132	.394 10.0	.492 12.5	.197 5.0	.024 0.6
336BPR050M	33	50(63)	.12	4.8	49	160	.394 10.0	.630 16.0	.197 5.0	.024 0.6
476BPR016M	47	16(20)	.16	4.5	23	123	.315 8.0	.453 11.5	.138 3.5	.024 0.6
476BPR025M	47	25(32)	.16	4.5	35	146	.394 10.0	.492 12.5	.197 5.0	.024 0.6
476BPR035M	47	35(44)	.14	4.0	49	174	.394 10.0	.630 16.0	.197 5.0	.024 0.6
476BPR050M	47	50(63)	.12	3.4	70	196	.394 10.0	.787 20.0	.197 5.0	.024 0.6
107BPR016M	100	16(20)	.16	2.1	48	215	.394 10.0	.630 16.0	.197 5.0	.024 0.6
107BPR025M	100	25(32)	.16	2.1	75	249	.394 10.0	.787 20.0	.197 5.0	.024 0.6
107BPR050M	100	50(63)	.12	1.6	150	318	.492 12.5	.787 20.0	.197 5.0	.024 0.6
157BPR025M	150	25(32)	.16	1.4	112	336	.394 10.0	.787 20.0	.197 5.0	.024 0.6
157BPR050M	150	50(63)	.12	1.1	225	430	.512 13.0	1.06 27.0	.197 5.0	.024 0.6
227BPR016M	220	16(20)	.16	1.0	106	336	.394 10.0	.630 16.0	.197 5.0	.024 0.6
227BPR025M	220	25(32)	.16	1.0	165	398	.492 12.5	.787 20.0	.197 5.0	.024 0.6
337BPR016M	330	16(20)	.16	0.6	158	451	.492 12.5	.787 20.0	.197 5.0	.024 0.6
477BPR016M	470	16(20)	.16	0.4	226	584	.492 12.5	.984 25.0	.197 5.0	.024 0.6
477BPR025M	470	25(32)	.16	0.4	352	710	.630 16.0	.984 25.0	.295 7.5	.032 0.8

Note 1: WVDC: Maximum rated DC Working Voltage at +85°C.

Note 2: SVDC: Maximum rated DC Surge Voltage at +85°C.

Note 3: Dissipation Factor (tan δ) Maximum; 120Hz, +25°C.

Note 4: ESR: Maximum Equivalent Series Resistance; 120Hz, +25°C nominal capacitance, maximum dissipation factor.

Note 5: Maximum Leakage Current; Rated WVDC, 5 Minutes, +25°C.

Note 6: RMS Ripple Current; 120Hz, +85°C.

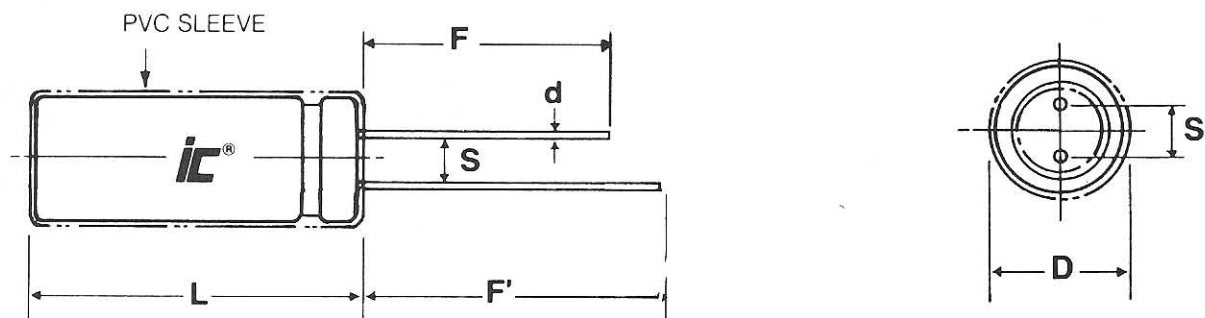
Note 7: Capacitance Tolerance is measured at 120Hz, +25°C

Note 8: All measurements are performed using the bridge method.



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PHYSICAL DIMENSIONS



BPR LEAD INFORMATION vs CASE SIZE			
Case Diameter (D)	Lead Spacing (S)	Lead Spacing Tol (S)	Lead Wire (d)
.236 6.0	.098 2.5	±.02 ±0.5	.024 0.6
.315 8.0	.138 3.5	±.02 ±0.5	.024 0.6
.394 10.0	.197 5.0	±.02 ±0.5	.024 0.6
.512 13.0	.197 5.0	±.02 ±0.5	.024 0.6
.630 16.0	.295 7.5	±.02 ±0.5	.032 0.8

CASE TOLERANCE			
Case Diameter (D)	Tolerance Case Diameter (D)	Case Length (L)	Tolerance Case Length (L)
≤ .394 ≤ 10.0	≤ .020 ≤ 0.5	≤ .492 ≤ 12.5	≤ .059 ≤ 1.5
≥ .512 ≥ 13.0	≤ .039 ≤ 1.0	≥ .512 ≥ 13.0	≤ .078 ≤ 2.0

LEAD LENGTH	
Cathode Lead Length (F)	Anode Lead Length (F')
.591 Min. 15.0 Min.	.748 Min. 19.0 Min.

Note 1: Dimensions shown do not include sleeve thickness.

Note 2: Case Vent is standard on all diameters ≥ $\frac{.315 \text{ in}}{8.0 \text{ mm}}$



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