



Bi-Polar Audio Crossover Electrolytic Capacitors BPRL Series

FEATURES

- Radial lead, bi-polarized, suitable for crossover network in high-fidelity sound systems
- Has excellent high frequency characteristics
- Low leakage current and low dissipation factor
- Satisfies characteristic W of JIS-C-5141 standard
- RoHS Compliant



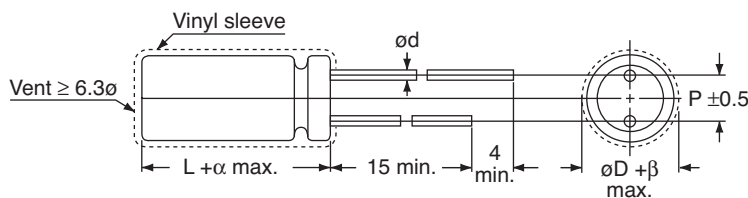
CHARACTERISTICS

Item	Characteristics			
Operating Temperature Range	-40°C ~ +85°C			
Capacitance Tolerance	±20% at +20°C, 1KHz			
Leakage Current	I = 0.03CWV or 3μA whichever is greater after 2 minutes of applied rated DC working voltage at 20°C Where: C = rated capacitance in μF; WV = rated DC working voltage			
Dissipation Factor (Tan δ, at +20°C 1KHz)	Capacitance (μF)	0.47 ~ 1.5	2.2 ~ 10	≥ 15
	Tan δ	0.12	0.10	0.08
Surge Voltage	Working voltage (WV)	50		
	Surge Voltage (sV)	63		
Low Temperature Characteristics	1. Capacitance at -40°C shall not be less than 80% of the value at 20°C 2. Impedance ratio at 120Hz: Z-25°C/Z+20°C is 2; Z-40°C/Z+20°C is 3			
Life Test	When returned to +20°C after 1,000 hours application of working voltage with the polarity reversed every 250 hours at +85°C, the capacitor will meet the following limits: Capacitance change is ≤ ±20% of initial value; tan δ is < 200% of initial specified value; leakage current is initial specified value			
Shelf Test	When returned to +20°C after 1,000 hours at +85°C with no voltage applied, the capacitor will meet the following limits: Capacitance change is ≤ ±20% of initial value; tan δ is < 200% of initial specified value; leakage current is initial specified value			

PART NUMBERING SYSTEM

1	4	0	-	B	P	R	L	5	0	V	4	7	-	R	C
Prefix				Series				Voltage Actual Value			Capacitance (μF) Actual Value			Suffix (RoHS Compliant)	

DIMENSIONS AND PERMISSIBLE RIPPLE CURRENT



Lead Spacing and Diameter (mm)

φD	6.3	8	10	13	16	18	22
P	2.5	3.5	5.0	5.0	7.5	7.5	10
φd	0.5	0.6	0.6	0.6	0.8	0.8	1.0
β	0.5	0.5	0.5	0.5	0.5	0.5	0.5
α	1.0		1.5				2.0

Dimensions: φD x L (mm); Ripple Current: mA/RMS @ 1KHz, 85°C

Working Voltage: 50WVDC								
Value	φD x L	mA	Value	φD x L	mA	Value	φD x L	mA
0.47	6.3 x 11	50	2.2	10 x 13	125	15	13 x 25	570
0.56	6.3 x 11	50	3.3	10 x 16	170	22	16 x 27	775
0.68	6.3 x 11	55	4.7	10 x 20	225	33	16 x 35.5	1110
0.82	6.3 x 11	60	6.8	13 x 21	300	47	18 x 35.5	1325
1	8 x 11	75	8.2	10 x 20	330	68	18 x 40	1795
1.5	10 x 12.5	105	10	13 x 26	365			

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