



MICROLAB/FXR

HR series

DC Blocks

Inner and/or Outer Blocks
Medium Power, Low Loss
100 – 9,500 MHz

- ◆ 50 Watt Average Power Rating
- ◆ High Voltage Rating
- ◆ Minimal RF Insertion Loss
- ◆ High Reliability
- ◆ Available Off-the-Shelf
- ◆ N, BNC, TNC or SMA Connectors




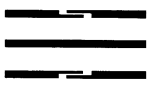

The Microlab/FXR HR series of DC Blocks is used to prevent the flow of direct current and low frequency current surges along the inner and/or the outer conductors of a transmission line, while permitting the unimpeded flow of RF signals. Applications include the blocking of current surges that can occur in subway tunnels and at antenna sites during lightening storms or whenever DC isolation is required.

The unit consists of a length of coaxial line with a distributed series capacitor in either or both the center conductor and outer conductor to block the flow of DC and low frequencies, while passing RF with negligible loss or reflections. Models for powers up to 500W (see [HR-D11/12](#) and [HR-D34/36](#)), and options for different polarity or alternate connectors are available on request. (6/01)

General Specifications

RF Insertion Loss:	0.2 dB max. 1.0 dB max on HR-10 series
Power Rating:	50 Watts average 1 kW peak
Maximum Voltage:	1000 Volts
Impedance:	50Ω nominal
Temperature:	-55°C to +150°C
Finish:	Iridite per MIL-C-5541
Connectors:	N male and female.
Connector Finish:	Silverplate per QQ-S-365

Basic Unit with N-connectors (N suffix)

Frequency Range, MHz	VSWR Max.	Nominal Capacitance		Model Number
		Inner Block	Outer Block	
Inner Block Models				
100-4000	1.25:1	1000 pF		HR-10N
2000-8000	1.35:1	15 pF		HR-50N
Outer Block Model				
1000-9500	1.25:1		30 pF	HR-51N
Inner and Outer Block Models				
1000-5000	1.35:1	22 pF	30 pF	HR-12N
2000-9500	1.35:1	15 pF	30 pF	HR-52N

Connector Series

Connectors & Suffix		Inner Blocks		Outer Blocks	
		Length in.(mm)	Weight oz. (g)	Length in.(mm)	Weight oz. (g)
N	N	2.1 (53)	2.3 (64)	2.4	2.5 (70)
BNC	B	1.8 (46)	0.7 (20)	2.1 (53)	0.9 (25)
TNC	T	1.8 (46)	0.8 (22)	2.1 (53)	1.0 (28)
SMA	F	1.8 (46)	0.8 (22)	2.1 (53)	1.0 (28)