



Inner and/or Outer Blocks 100 - 9,500 MHz

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

The Microlab HR-50 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-20, HR-22, HR-25), and options for different polarity or alternate connectors are available on request. (8/08)

RF Insertion Loss: 0.2 dB max.

1.0 dB max on HR-10N

Power Rating: 50 Watts avg., 1 kW peak Maximum Voltage: 1000 Volts

 $\begin{array}{lll} \mbox{Impedance:} & 50\Omega \mbox{ nominal} \\ \mbox{Temperature:} & -55^{\circ}\mbox{C to } +150^{\circ}\mbox{C} \\ \mbox{Connectors:} & \mbox{N male and female.} \\ \mbox{Finish:} & \mbox{Silver or tri-plate} \end{array}$

Connector	r/Suffix	Connector Variation Inner Blocks Length Weight in (mm) oz (g)		Outer Blocks Length Weight in (mm) oz (g)			
N type	N	2.1(53)	2.3(64)	2.4(61)	2.5(70)		
BNC*	В	1.8(46)	0.7(20)	2.1(53)	0.9(25)		
TNC*	Т	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)		
*special order							





Frequency Range, GHz	VSWR Max.	Nominal Ca	apacitance Outer	Model Number
Inner Block Models:			11	
0.1 - 4.0 2.0 - 8.0	1.25:1 1.35:1	1000 pF 15 pF	-	HR-10N HR-50N
Outer Blo	ock Models:			-
1.0 - 9.5	1.25:1	-	30 pF	HR-51N
Inner and Outer Block Models:				
1.0 - 5.0 2.0 - 9.5	1.35:1 1.35:1	22 pF 15 pF	30 pF 30 pF	HR-12N HR-52N