DC Blocks, HR-21/22 series

High Power, Inner/Outer and Outer Blocks
380 – 2,700 MHz, N or 7-16 mm
Rev. B

- Multi-Band Frequency Range
- 250 Watt Average Power Rating
- 3 kV DC High Voltage Rating
- Minimal RF Insertion Loss
- Very Low Passive IM
- RoHS compliant
- High Reliability
- N or DIN connectors

These DC Blocks are used to prevent the flow of direct current and low frequency current surges along the inner and outer conductors of a transmission line, while permitting the unimpeded flow of RF signals. Applications include the blocking of current surges in subway tunnels and at antenna sites during lightening storms. HR-21 series is similar except only the outer conductor is blocked.

The unit consists of a length of coaxial line with a series capacitor in both the center conductor and outer conductor to block the flow of low frequencies, while passing RF with negligible loss or reflections. Options for different polarity or alternate connectors are available on request. (03/13)

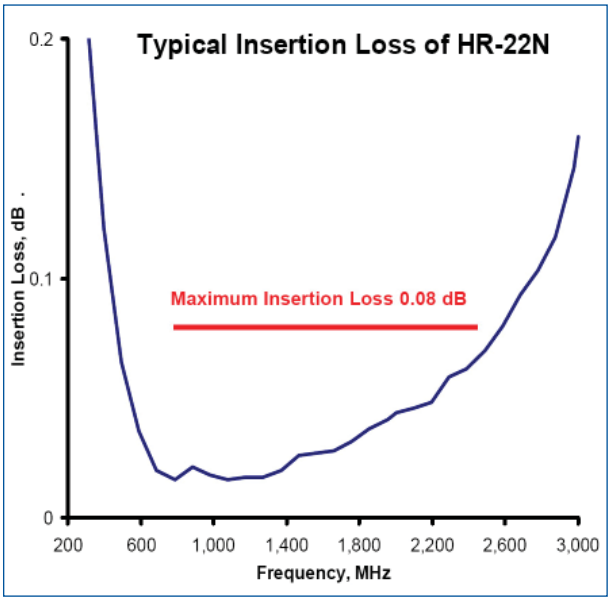
Specifications Model HR-22D and HR-22N

Block:	Inner and Outer
Impedance:	50Ω nominal
Intermod. Distortion:	<-150 dBc (2 tones of +43 dBm)
Environment:	-35°C to +75°C
Power Rating:	250W avg., 10kW pk.
Breakdown Voltage:	3 kV DC max.
Finish:	Delrin plastic
Connector Finish:	Silver or triplate

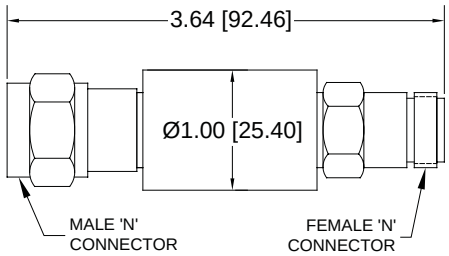
Model HR-21D and HR-21N as above except

Block:	Outer only

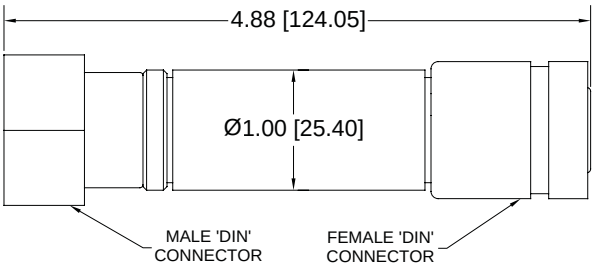
Model Numbers In/Outer	Outer Block	Connectors (m & f)		Frequency Range, MHz 380-520	520-1700	1700-2200	2200-2500	2500-2700	Weight oz. (g) nom
HR-22N	**HR-21N**	N	Loss, dB VSWR	<0.12 <1.40:1	<0.08 <1.20:1	<0.08 <1.20:1	<0.08 <1.20:1	<0.10 typ. <1.25:1 typ.	5.0 (140)
HR-22D	**HR-21D**	7-16 mm DIN	Loss, dB VSWR	<0.14 <1.40:1	<0.12 <1.15:1	<0.2 <1.20:1	<0.2 <1.35:1	- -	12.1 (340)



HR-21N & HR-22N Outlines



HR-21D & HR-22D Outlines



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