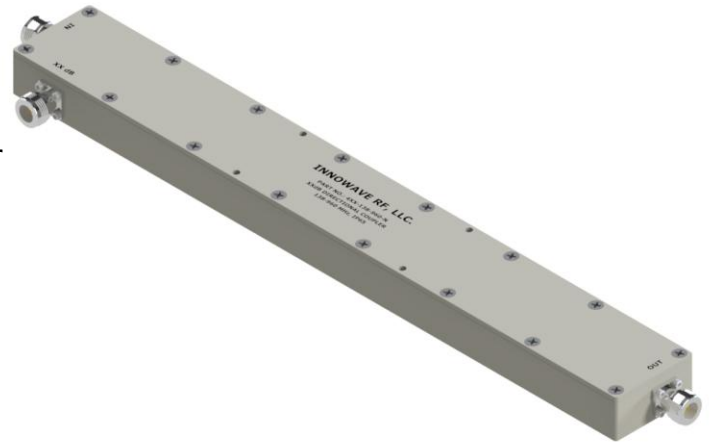
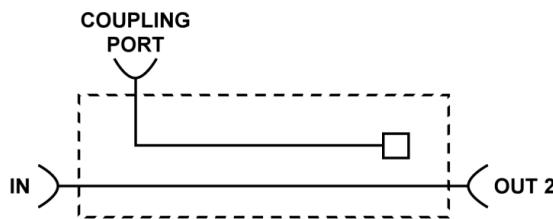


420-138-960 Series of Public Safety 20dB Directional Couplers are devices that operate from 138MHz – 960MHz. It covers all the VHF, UHF, 700MHz and 800MHz Public Safety bands, including the 900MHz Paging Band. It has excellent directivity and coupling flatness across the entire band. It also exhibits a very low insertion loss along with outstanding VSWR at all three ports. These units are rated for IP65 applications. They couplers are available is standard Grey color or Traditional Red color on request. Available with Type-N connectors as standard. **Other Coupling Values are available on request.**

FEATURES:

- Operates from 138 MHz to 960 MHz
- Covers **VHF, UHF, 700MHz, 800MHz Public Safety and 900MHz Paging bands**
- Low Insertion Loss and Low VSWR
- RoHS Compliant
- IP65 Rated
- Available in Standard Grey or Traditional Red color
- In Stock to low lead time delivery

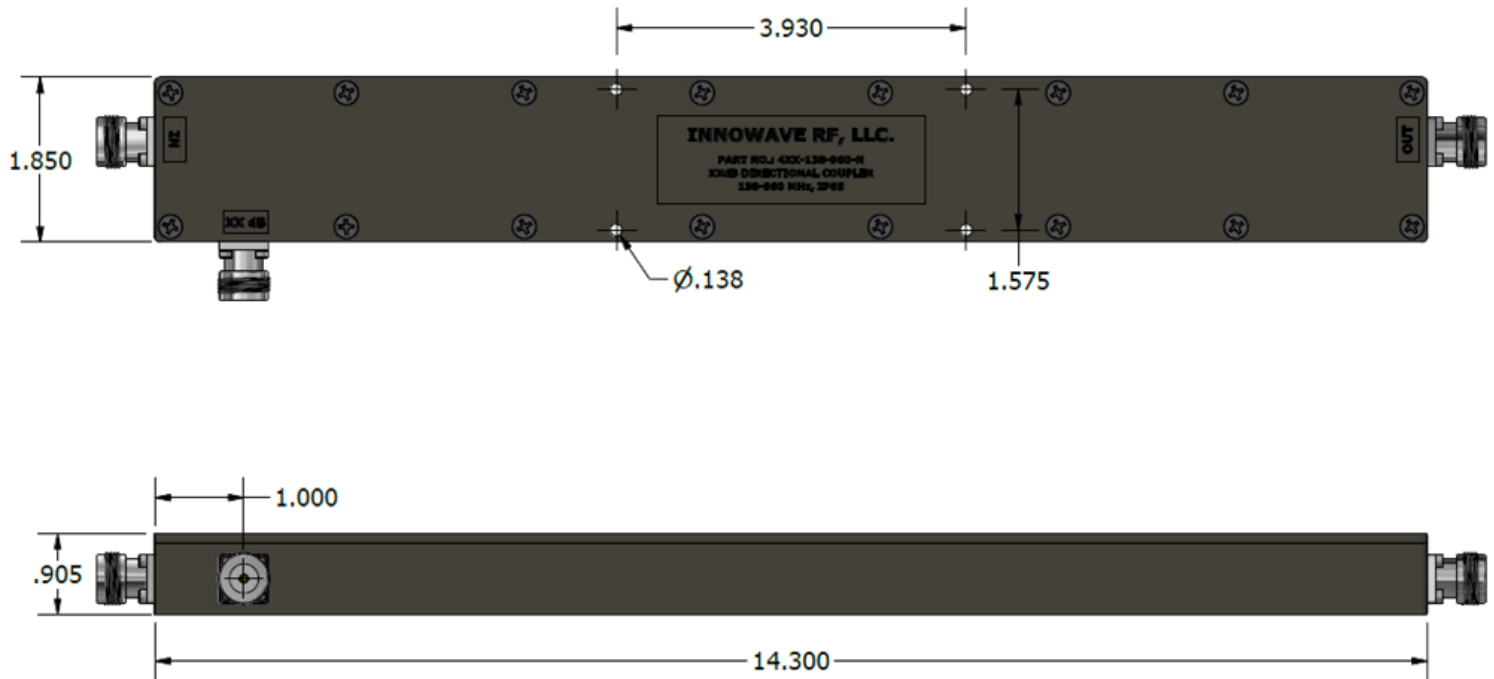
Block Diagram for Directional Couplers



ELECTRICAL & MECHANICAL SPECIFICATIONS:

Coupling Value	3dB	5dB	6dB	8dB	10dB	13dB	15dB	20dB	25dB	30dB
Other Coupling Values are available on Request										
Frequency Bands	138 MHz – 960 MHz									
Insertion Loss (dB)	≤3.00	≤2.20	≤1.75	≤1.35	≤0.90	≤0.70	≤0.50	≤0.40	≤0.35	≤0.30
Frequency Sensitivity (dB)										
138– 960 MHz	±1.30	±1.40	±1.50	±1.35	±1.75	±1.75	±2.00	±2.00	±2.25	±2.25
Directivity (dB)										
138 – 960 MHz	≥ 18	≥ 19	≥ 21	≥ 23	≥ 25	≥ 28	≥ 30	≥ 35	≥ 40	≥ 45
VSWR	≤ 1.30:1									
Impedance	50 Ω									
Input Power	200 Watts (Avg)									
Connectors	Type-N Female (Standard)									
Mounting Method	Mounting Holes									
Temperature Range	-40°C to +85°C									
Weight	0.50 lbs									
Color	Grey (Standard) / Red-R03 (On Request)									
Environment	IP65									

Dimensions for 4XX-138-960-D43



ORDERING INFO:

Part Number Ordering Info	
Coupling Value	Corresponding Part Number
	Type-N
3 dB	403-138-960-N
5 dB	405-138-960-N
6 dB	406-138-960-N
8 dB	408-138-960-N
10 dB	410-138-960-N
13 dB	413-138-960-N
15 dB	415-138-960-N
20 dB	420-138-960-N
25 dB	425-138-960-N
30 dB	430-138-960-N
XX dB (<i>Custom Value</i>)	4XX-138-960-N

Please contact our sales department at 737-200-7090 or sales@InnowaveRF.com for any custom requirements.

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