

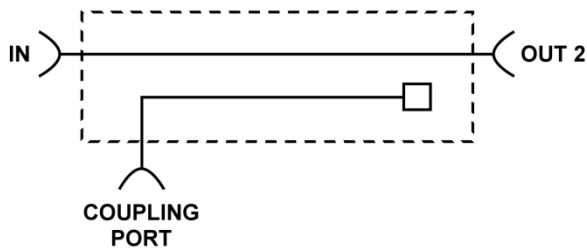
**4XX-600-6000 Series** of Ultra Wideband Directional Couplers are Low-PIM devices that operate from 600MHz – 6000MHz. It has excellent directivity and coupling flatness across the entire band. It also exhibits a very low insertion loss along with outstanding VSWR at all three ports. These units are weatherproof and suitable for extreme conditions. Available in different connector options.

**FEATURES:**

- Operates from 600 MHz to 3800 MHz
- Covers 600MHz (Band 71), CBRS and LTE-LAA bands
- Low Insertion Loss and Low VSWR
- Excellent PIM rating, -161dBc
- RoHS Compliant
- Weatherproof / Outdoor unit
- In Stock to low lead time delivery
- Superior Construction and High Power Handling
- Available in DIN, Mini-DIN, 4.3-10 or Nex10 Connectors



**Block Diagram for Directional Couplers**



**PART ORDERING INFO:**

**4XX-600-6000-\***

**XX** - Coupling Value  
(Ex: 6dB -- 406; 30dB -- 430)

**\*** - Connector Option

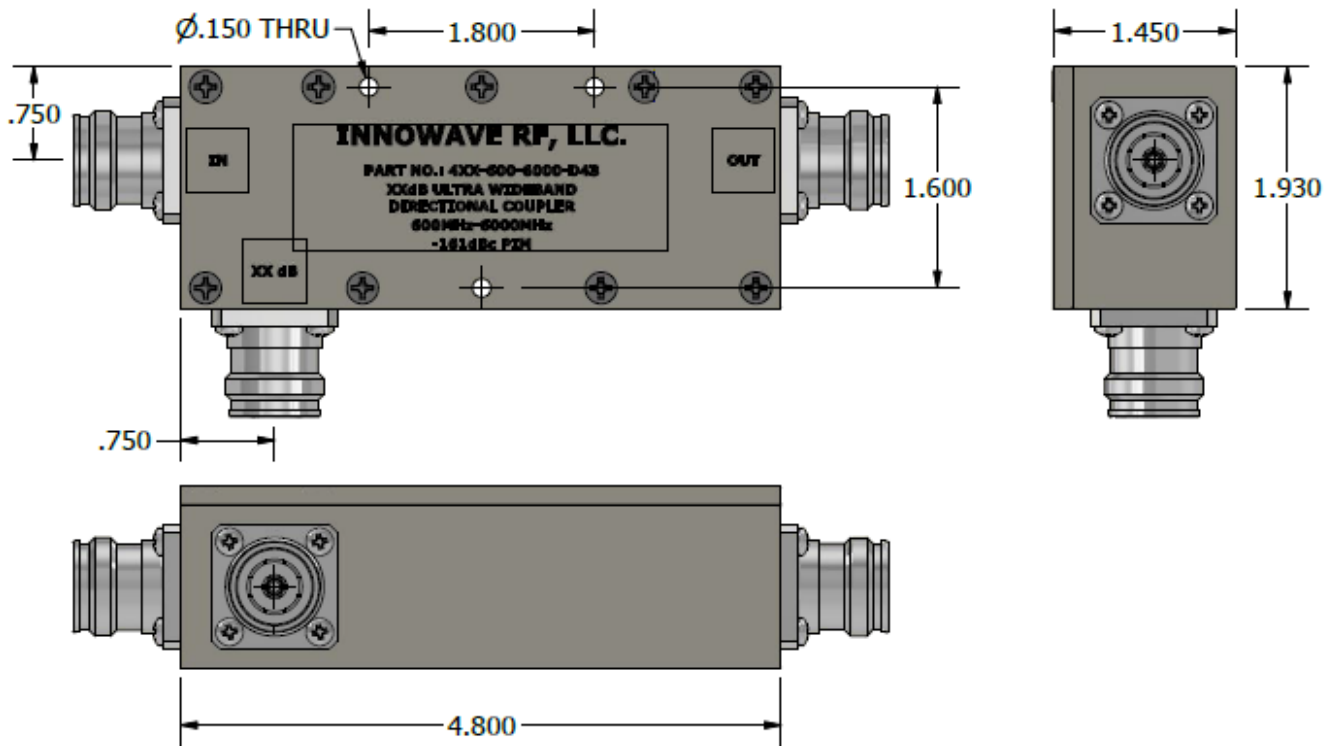
**ELECTRICAL SPECIFICATIONS:**

Coupling Value	6dB	8dB	10dB	15dB	20dB	30dB	40dB
Frequency Bands	600 MHz - 6000 MHz						
Frequency Sensitivity(dB)							
600 – 698 MHz	± 1.75	± 1.80	± 2.00	± 2.75	± 3.00	± 3.25	± 3.50
698 – 2700 MHz	± 1.40	± 1.50	± 1.75	± 2.40	± 2.75	± 3.00	± 3.25
2700 – 6000 MHz	± 1.75	± 1.80	± 2.00	± 2.75	± 3.00	± 3.25	± 3.50
Isolation (dB)							
600 – 698 MHz	≥ 26	≥ 28	≥ 30	≥ 32	≥ 40	≥ 50	≥ 58
698 – 2700 MHz	≥ 24	≥ 26	≥ 28	≥ 28	≥ 38	≥ 48	≥ 52
2700 – 6000 MHz	≥ 20	≥ 22	≥ 24	≥ 25	≥ 34	≥ 42	≥ 48
Return Loss	-18dB @ 600 – 2700 MHz / -20 dB @ 2700 – 6000 MHz						
Impedance	50 Ω						
Intermodulation (PIM-3 <sup>rd</sup> )	-161 dBc (2 Tones +43 dBm)						
Input Power	200 Watts (Avg); 500 Watts (Peak)						

**MECHANICAL SPECIFICATIONS:**

Connectors:	7/16 DIN (D) / Mini-DIN (MD) / 4.3-10 (D43) / Nex10 (X10)
Housing Finish:	Aluminum Body
Mounting Method:	Mounting Panel
Temperature Range:	-25°C to 75°C
Weight:	0.80 lb
Relative Humidity:	5% - 95%
Environment:	IP67

**Dimensions for 4XX-600-6000-D43**



Please contact our sales department at 737-200-7090 or [sales@InnowaveRF.com](mailto:sales@InnowaveRF.com) for any custom requirements.

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