

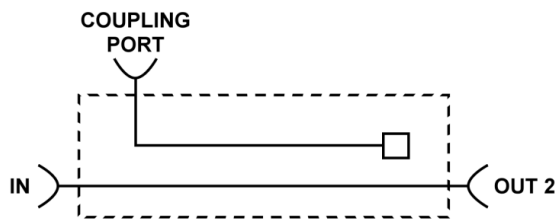
**408-698-960 Series** of Public Safety 8dB Directional Couplers are devices that operate from 698MHz – 960MHz. It covers all the 700MHz and 800MHz Public Safety bands, including the 900MHz Paging Band. It has excellent directivity and coupling flatness across the entire band. It also exhibits a very 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 698 MHz to 960 MHz
- Covers **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



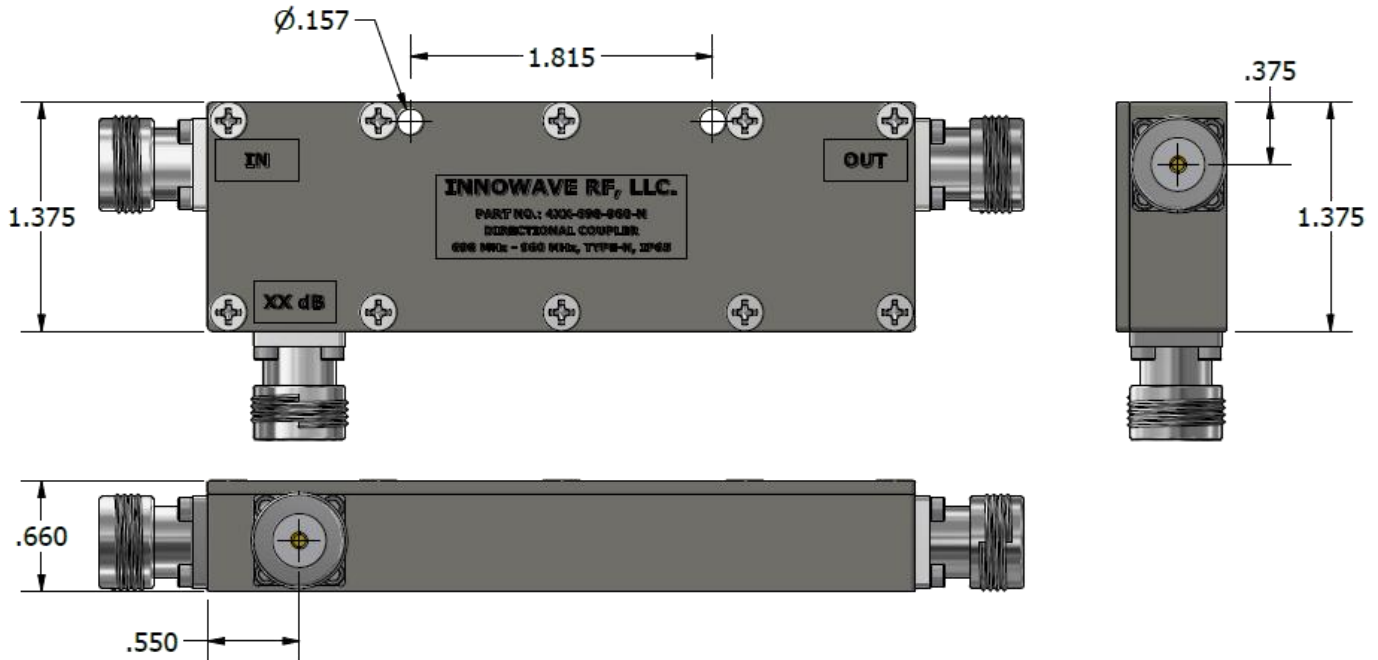
### Block Diagram for Directional Couplers



### ELECTRICAL & MECHANICAL SPECIFICATIONS:

| Coupling Value                                 | 3dB                                    | 5dB   | 6dB   | 8dB   | 10dB  | 13dB  | 15dB  | 20dB  | 25dB  | 30dB  |
|------------------------------------------------|----------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Other Coupling Values are available on Request |                                        |       |       |       |       |       |       |       |       |       |
| Frequency Bands                                | 698 MHz – 960 MHz                      |       |       |       |       |       |       |       |       |       |
| Insertion Loss (dB)                            | ≤2.45                                  | ≤2.40 | ≤1.90 | ≤1.50 | ≤0.90 | ≤0.60 | ≤0.50 | ≤0.40 | ≤0.35 | ≤0.30 |
| Frequency Sensitivity (dB)                     |                                        |       |       |       |       |       |       |       |       |       |
| 698-960 MHz                                    | ±1.00                                  | ±1.00 | ±1.00 | ±1.10 | ±1.20 | ±1.20 | ±1.50 | ±1.50 | ±1.50 | ±1.60 |
| Directivity (dB)                               |                                        |       |       |       |       |       |       |       |       |       |
| 698-960 MHz                                    | ≥ 23                                   | ≥ 23  | ≥ 24  | ≥ 25  | ≥ 28  | ≥ 31  | ≥ 33  | ≥ 38  | ≥ 40  | ≥ 45  |
| VSWR                                           | ≤ 1.30:1                               |       |       |       |       |       |       |       |       |       |
| Impedance                                      | 50 Ω                                   |       |       |       |       |       |       |       |       |       |
| Input Power                                    | 300 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-698-960-D43**



**ORDERING INFO:**

| Part Number Ordering Info     |                           |
|-------------------------------|---------------------------|
| Coupling Value                | Corresponding Part Number |
|                               | Type-N                    |
| 3 dB                          | 403-698-960-N             |
| 5 dB                          | 405-698-960-N             |
| 6 dB                          | 406-698-960-N             |
| 8 dB                          | 408-698-960-N             |
| 10 dB                         | 410-698-960-N             |
| 13 dB                         | 413-698-960-N             |
| 15 dB                         | 415-698-960-N             |
| 20 dB                         | 420-698-960-N             |
| 25 dB                         | 425-698-960-N             |
| 30 dB                         | 430-698-960-N             |
| XX dB ( <i>Custom Value</i> ) | 4XX-698-960-N             |

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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