

**313L-10-10 Series** of 10dB In-Line Low-PIM Fixed Attenuators are designed for 10W applications from 600MHz - 6000MHz. It covers all Cellular frequencies, including the DoD / CBRS / C-Band / LTE-LAA bands. These attenuators are guaranteed for Low-PIM performance in the entire frequency range. These units are rugged in their construction and can handle harsh environmental conditions. They are perfect for indoor and outdoor applications. Standard values include are listed in the specifications below. **Custom attenuation values can also be manufactured on request.**

#### **FEATURES:**

- **DoD / CBRS / C-Band / LTE-LAA** Ready
- Fixed In-Line Attenuator with a high degree of accuracy
- Small Form-Factor and Light Weight
- Flat response from 600MHz - 6000MHz
- Conventional Male(IN) / Female(OUT)
- Outstanding PIM performance, -161dBc typical
- Low VSWR across the band
- RoHS Compliant
- Weatherproof / Outdoor unit
- In Stock to low lead time delivery



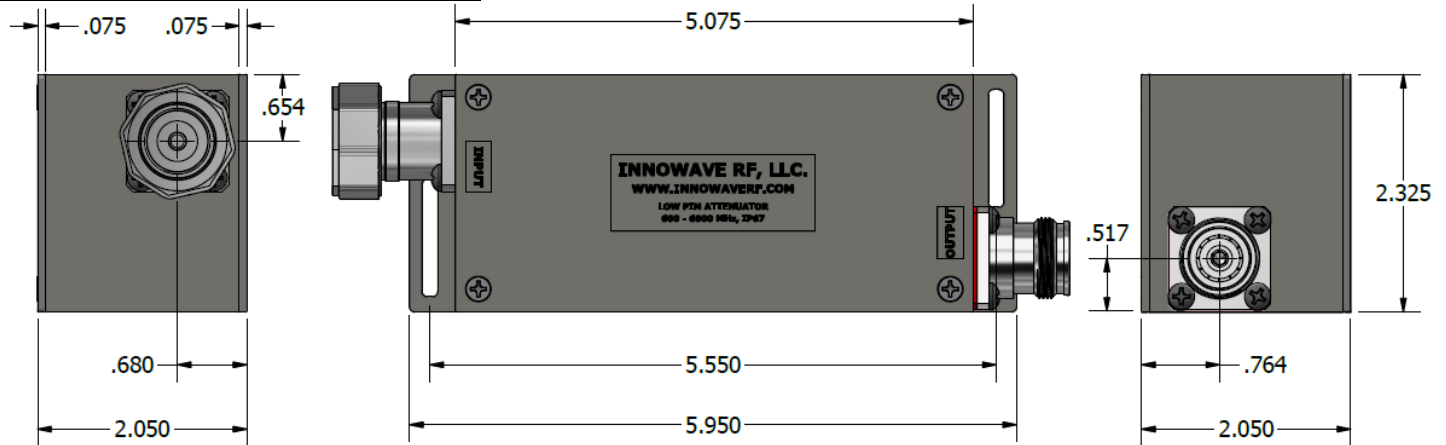
#### **ELECTRICAL SPECIFICATIONS:**

| Attenuation                              | 2dB                              | 3dB   | 5dB   | 6dB   | 8dB   | 10dB  | 15dB  | 20dB  | 30dB  | 40dB  |
|------------------------------------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Attenuation Accuracy                     | ±0.25                            | ±0.50 | ±0.50 | ±0.50 | ±0.75 | ±1.00 | ±1.00 | ±1.00 | ±1.25 | ±1.50 |
| Frequency Range                          | 600MHz - 6000MHz                 |       |       |       |       |       |       |       |       |       |
| Return Loss                              | 19 dB (Typ)                      |       |       |       |       |       |       |       |       |       |
| Intermodulation (PIM - 3 <sup>rd</sup> ) | -161 dBc (Typ) (2 Tones +43 dBm) |       |       |       |       |       |       |       |       |       |
| Impedance                                | 50 Ohms                          |       |       |       |       |       |       |       |       |       |
| Input Power                              | 10W (Average Power)              |       |       |       |       |       |       |       |       |       |

#### **MECHANICAL SPECIFICATIONS:**

|                    |                          |
|--------------------|--------------------------|
| Connectors:        | 4.3-10(D43) / NEX10(X10) |
| Housing Finish:    | Aluminum Body            |
| Mounting Method:   | Mounting Slot            |
| Temperature Range: | -35°C to 75°C            |
| Relative Humidity: | 5% - 95%                 |
| Weight:            | 3.30 lbs                 |
| Environment:       | IP67                     |

**Dimensions for 313L-10-10-D43**



**ORDERING INFO:**

| Part Number Ordering Info     |                           |                |
|-------------------------------|---------------------------|----------------|
| Attenuation Value             | Corresponding Part Number |                |
|                               | 4.3-10                    | NEX10          |
| 2 dB                          | 313L-2-10-D43             | 313L-2-10-X10  |
| 3 dB                          | 313L-3-10-D43             | 313L-3-10-X10  |
| 5 dB                          | 313L-5-10-D43             | 313L-5-10-X10  |
| 6 dB                          | 313L-6-10-D43             | 313L-6-10-X10  |
| 8 dB                          | 313L-8-10-D43             | 313L-8-10-D43  |
| 10 dB                         | 313L-10-10-D43            | 313L-10-10-X10 |
| 15 dB                         | 313L-15-10-D43            | 313L-15-10-X10 |
| 20 dB                         | 313L-20-10-D43            | 313L-20-10-X10 |
| 30 dB                         | 313L-30-10-D43            | 313L-30-10-X10 |
| 40 dB                         | 313L-40-10-D43            | 313L-40-10-X10 |
| XX dB ( <i>Custom Value</i> ) | 313L-XX-10-D43            | 313L-XX-10-X10 |

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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