Ultra Compact Single Diplexer 1350-1880/1920-2690, 4.3-10 connectors

- Ideal for small cell applications
- Compact form factor with reduced size and weight
- Suitable for space limited applications like Metro Cell, Lamp Pole, Concealment Solution and Macro Site
- New 4.3-10 connectors for improved PIM performance and size reduction
- Single configuration

Product Classification

Product Type: Diplexer

General Specifications

Color: Gray
Modularity: 1-Single
Mounting: Pole | Wall
Mounting Pipe Hardware: Band clamps (2)
RF Connector Interface: 4.3-10 Female

Dimensions

Height: 48 mm | 1.89 in
Width: 138 mm | 5.433 in
Depth: 141.5 mm | 5.571 in
Mounting Pipe Diameter Range: 42.6–122 mm

Outline Drawing
Electrical Specifications

**Impedance**

50 ohm

Electrical Specifications, dc Power/Alarm

- **dc/AISG Pass-through Method**
  - No dc/AISG pass-through
- **dc/AISG Pass-through, combiner**
  - dc/AISG blocking on all ports
- **dc/AISG Pass-through, demultiplexer**
  - dc/AISG blocking on all ports
- **Lightning Surge Current**
  - 5 kA
- **Lightning Surge Current Waveform**
  - 8/20 waveform
Branch | 1 | 2  
---|---|---  
Port Designation | PORT 1 1350-1880 | PORT 2 1920-2690  

### Electrical Specifications, Band Pass

| Frequency Range, MHz | 1350–1880 | 1920–2690  
|----------------------|------------|----------  
| Insertion Loss, typical, dB | 0.25 | 0.2  
| Return Loss, typical, dB | 22 | 22  
| Isolation, typical, dB | 38 | 38  
| Input Power, RMS, maximum, W | 100 | 100  
| Input Power, PEP, maximum, W | 1000 | 1000  
| 3rd Order PIM, typical, dBc | -162 | -162  
| 3rd Order PIM Test Method | Two +43 dBm carriers | Two +43 dBm carriers  

### Block Diagram

![Block Diagram Image]

### Environmental Specifications

**Operating Temperature**  
-40 °C to +65 °C (-40 °F to +149 °F)

**Corrosion Test Method**  
IEC 60068-2-11, 30 days

**Environmental Test Method**  
ETSI EN 300 019-1-4

**Ingress Protection Test Method**  
IEC 60529:2001, IP67

### Packaging and Weights

**Included**  
Mounting hardware

**Volume**  
0.95 L

**Weight, net**  
2 kg | 4.409 lb

**Weight, without mounting hardware**  
1.5 kg | 3.307 lb