Twin AWS IMF for Broadcast Auxiliary Service (BAS) co-location, 4.3-10 connectors

- Provides interference mitigation in the Broadcast Auxiliary Service band of 2097.5-2109.5 MHz
- Supports AWS3/4 extended bands (1695-1780 & 2110-2200 MHz)
- Easy to install in existing AWS systems and prevent adjacent channel interference for BAS licensees
- New 4.3-10 connectors for improved PIM performance and size reduction
- Compact form factor with reduced size and weight
- Available in twin (IMFT-AWSBAS-43) and quad (IMFQ-AWSBAS-43) configurations

### General Specifications

<table>
<thead>
<tr>
<th>Modularity</th>
<th>2-Twin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Includes</td>
<td>Mounting hardware</td>
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</tbody>
</table>

### Electrical Specifications

#### Sub-module

<table>
<thead>
<tr>
<th>Branch</th>
<th>Port Designation</th>
<th>License Band</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AWS</td>
<td>AWS 1700, Band Pass</td>
</tr>
<tr>
<td>2</td>
<td>AWS</td>
<td>AWS 1700, Band Pass</td>
</tr>
</tbody>
</table>

#### Frequency Range

- **Band Pass**: 1695–1780 MHz, 2110.3–2110.5 MHz, 2110.5–2200 MHz
- **Band Reject**: 2097.5–2109.5 MHz

#### Electrical Specifications, Band Pass

- **Insertion Loss, maximum**: 0.20 dB, 1.80 dB, 1.30 dB
- **Insertion Loss, typical**: 1.40 dB, 1.00 dB
- **Total Group Delay, maximum**: 10 ns, 480 ns, 320 ns
- **Return Loss, minimum**: 18 dB, 18 dB, 18 dB
- **Input Power, RMS, maximum**: 100 W, 100 W
- **Input Power, PEP, maximum**: 1000 W, 1000 W
- **Higher Order PIM, minimum**: -161 dBc, -161 dBc
- **Higher Order PIM Test Method**: 2 x 20 W CW tones, 2 x 20 W CW tones

#### Electrical Specifications, Band Reject

- **Attenuation, minimum**: 30 dB, 30 dB

### Product Classification

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Interference mitigation filter</th>
</tr>
</thead>
</table>

### dc Power/Alarm Electrical Specifications

- **dc/AISG Pass-through Path**: Branch 1 | Branch 2
- **Lightning Surge Current**: 10 kA
Lightning Surge Current Waveform 8/20 waveform

Block Diagram

Mechanical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF Connector Interface</td>
<td>4.3-10 Female</td>
</tr>
<tr>
<td>RF Connector Interface Body Style</td>
<td>Long neck</td>
</tr>
<tr>
<td>Ground Screw Diameter</td>
<td>5.00 mm</td>
</tr>
<tr>
<td>Color</td>
<td>Gray</td>
</tr>
</tbody>
</table>
Mounting Pipe Hardware

Band clamps (2)

Dimensions

Height 298.0 mm | 11.7 in
Width 204.0 mm | 8.0 in
Depth 65.0 mm | 2.6 in

Weight, without mounting hardware 4.1 kg | 9.0 lb
Mounting Hardware Weight 0.7 kg | 1.4 lb

Environmental Specifications

Operating Temperature -40 °C to +65 °C (-40 °F to +149 °F)
Relative Humidity Up to 100%

Outline Drawing