



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

Modularity	2-Twin
Includes	Mounting hardware

Electrical Specifications

Sub-module	1 2	1 2	1 2
Branch	1	1	1
Port Designation	AWS	AWS	AWS
License Band	AWS 1700, Band Pass	AWS 1700, Band Pass	AWS 1700, Band Pass

Electrical Specifications, Band Pass

Frequency Range	1695–1780 MHz	2110.3–2110.5 MHz	2110.5–2200 MHz
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

Frequency Range	2097.5–2109.5 MHz	2097.5–2109.5 MHz
Attenuation, minimum	30 dB	30 dB

Product Classification

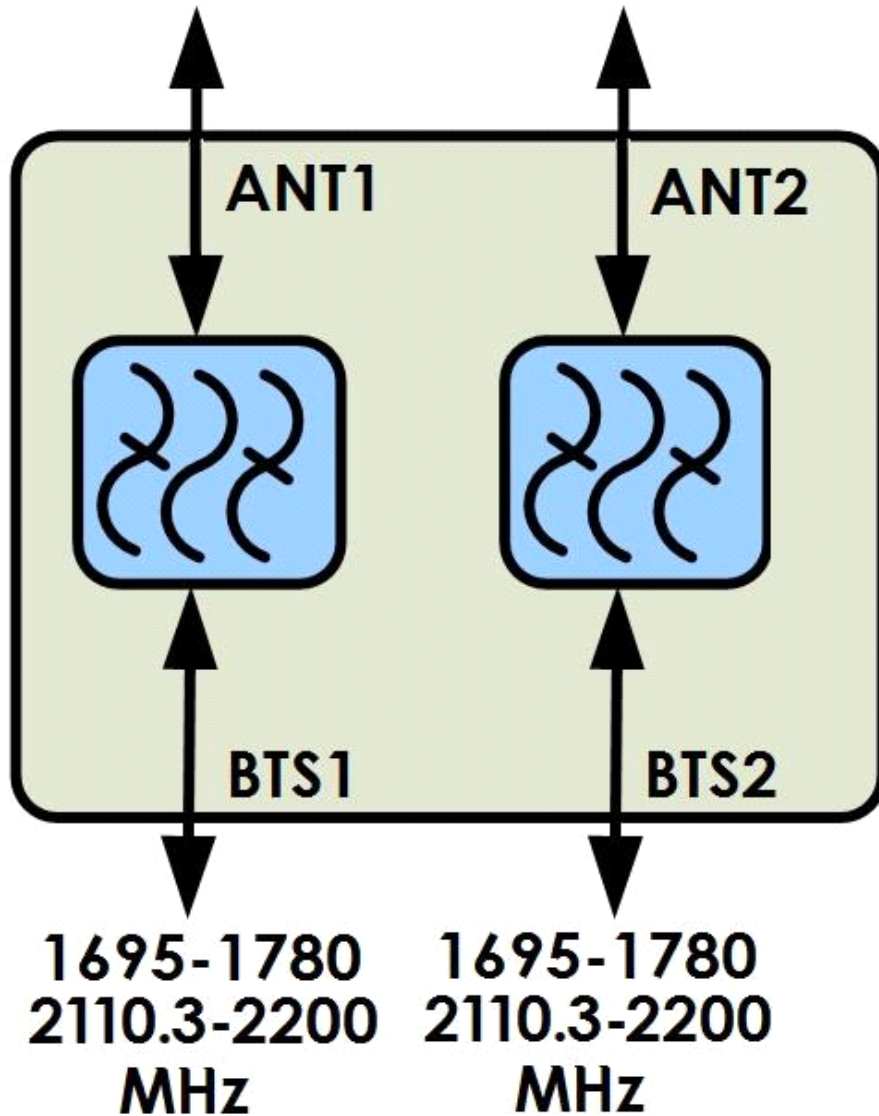
Product Type	Interference mitigation filter
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dc Power/Alarm Electrical Specifications

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

RF Connector Interface	4.3-10 Female
RF Connector Interface Body Style	Long neck
Ground Screw Diameter	5.00 mm
Color	Gray

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%
Ingress Protection Test Method	IEC 60529:2001, IP67

Outline Drawing

