

AWS Twin In-Band Diplexer, AWS ABCDEF1/HIJ Bands with AISG/DC Sense

OBSOLETE

Replaced By:

CHB626-43-2X D15T01P38

Twin Hybrid Combiner

Product Classification

Product Type Diplexer

General Specifications

ApplicationIndoorOutdoorAISG Carrier2176 KHz ± 100 ppm

Antenna Interface 4.3-10 Female

Connector Interface Style Long neck

Rx Interface 4.3-10 Female

Dimensions

 Height
 231 mm | 9.094 in

 Width
 265 mm | 10.433 in

 Depth
 96 mm | 3.78 in

 Ground Screw Diameter
 5 mm | 0.197 in

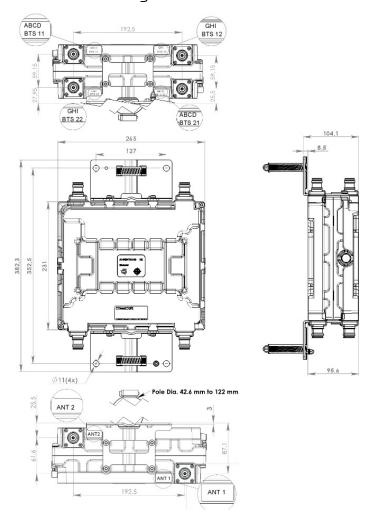
dc/AISG Auto-Sense Logic



RF Ports Input Voltage		
BTS11	BTS12	DC/AISG Path Selection
7 ≤ V ≤ 30	<7	BTS11-ANT1 "ON"
		BTS12-ANT 1 "OFF"
<7	7 ≤ V ≤ 30	BTS 11-ANT 1 "OFF"
		BTS 12-ANT 1 "ON"
V<7 or V>30	V<7 or V>30	ALL ports OFF

RF Ports Input Voltage		
BTS21	BTS22	DC/AISG Path Selection
7 ≤ V ≤ 30	<7	BTS21-ANT2 "ON"
		BTS22-ANT 2 "OFF"
<7	7 ≤ V ≤ 30	BTS 21-ANT 2 "OFF"
		BTS 22-ANT 2 "ON"
V<7 or V>30	V<7 or V>30	ALL ports OFF

Outline Drawing



Electrical Specifications

Lightning Surge Current 10 kA

Lightning Surge Current Waveform 8/20 waveform

Electrical Specifications, Rx (Uplink)

Frequency Band 1710 – 1750 MHz

Insertion Loss, typical0.4 dBReturn Loss, minimum18 dBIsolation, minimum28 dBLicense BandAWS

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Total Group Delay, maximum 30 ns

Electrical Specifications 2, Rx (Uplink)

Frequency Band 1760 – 1780 MHz

Isolation, minimum28 dBLicense BandAWSTotal Group Delay, maximum60 nsInsertion Loss, typical0.45 dBReturn Loss, minimum18 dB

Electrical Specifications, Tx (Downlink)

3rd Order IMD Test Method 2 x 20 W CW tones

3rd Order IMD, specific -160 dBc

Frequency Band 2110 – 2150 MHz

Isolation, minimum28 dBLicense BandAWSInput Power, PEP, maximum1700 WInput Power, RMS, maximum120 WTotal Group Delay, maximum30 nsInsertion Loss, typical0.4 dBReturn Loss, minimum18 dB

Electrical Specifications 2, Tx (Downlink)

3rd Order IMD Test Method 2 x 20 W CW tones

3rd Order IMD, specific -160 dBc

Frequency Band 2160 – 2180 MHz

Input Power, PEP, maximum1700 WInsertion Loss, typical0.45 dBIsolation, minimum28 dBLicense BandAWSReturn Loss, minimum18 dBTotal Group Delay, maximum60 ns

Electrical Specifications, AISG

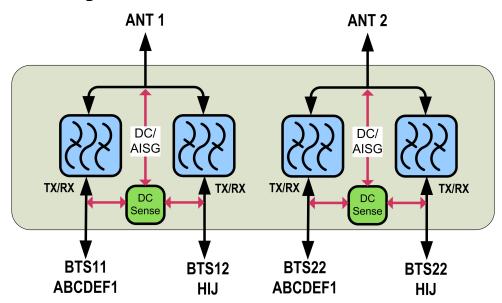


Return Loss, minimum

12 dB



Block Diagram



Environmental Specifications

Operating Temperature $-40 \,^{\circ}\text{C} \text{ to } +65 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F to } +149 \,^{\circ}\text{F})$

Ingress Protection Test MethodIEC 60529:2001, IP67

Packaging and Weights

Included Brackets

Mounting Hardware Weight1.1 kg | 2.425 lbWeight, without mounting hardware6.9 kg | 15.212 lb