

Depth

Ground Screw Diameter

Outline Drawing

AWS Twin In-Band Diplexer Zero Guard Band, AWS DEF blocks + PCS / AWS C block with DC/AISG Sense and 4.3-10 Connectors

Product Classification	
Product Type	Diplexer
General Specifications	
Application	Indoor Outdoor
Connector Interface	4.3-10 Female
Connector Interface Style	Long neck
Rx Interface	4.3-10 Female
Dimensions	
Height	245 mm 9.646 in
Width	274 mm 10.787 in

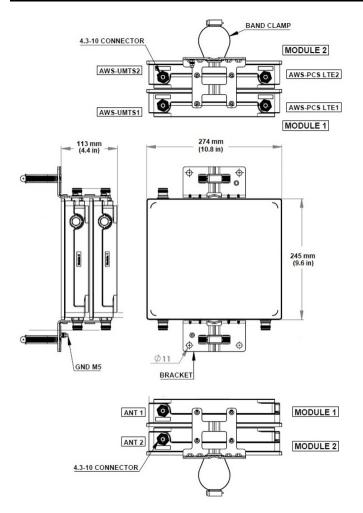
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113 mm | 4.449 in

5 mm | 0.197 in



Electrical Specifications, Rx (Uplink)

1736 – 1754 MHz 1850 – 1915 MHz
0.4 dB 0.6 dB
18 dB
23 dB
LTE AWS D,E,F + PCS band
150 ns

Electrical Specifications 2, Rx (Uplink)

Frequency Band	1730.58 - 1734.42 MHz
Isolation, minimum	23 dB
Port Designation	UMTS AWS C block

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Total Group Delay, maximum	160 ns
Insertion Loss, typical	0.8 dB
Return Loss, minimum	18 dB

Electrical Specifications, Tx (Downlink)

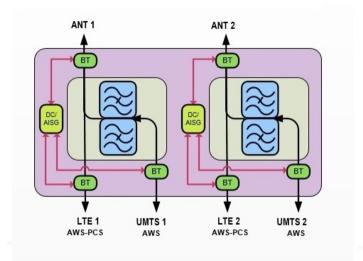
Frequency Band	1930 – 1995 MHz 2136 – 2154 MHz
Isolation, minimum	28 dB
Input Power, PEP, maximum	1700 W
Input Power, RMS, maximum	120 W
Total Group Delay, maximum	120 ns
Insertion Loss, typical	0.6 dB
Return Loss, minimum	18 dB

Electrical Specifications 2, Tx (Downlink)

Frequency Band	2130.58 - 2134.42 MHz
Input Power, PEP, maximum	1700 W
Insertion Loss, typical	0.8 dB
Isolation, minimum	28 dB
Return Loss, minimum	18 dB
Total Group Delay, maximum	160 ns

Block Diagram





Logic Table

DC input	t voltage	ANT PORT
AWS-UMTS PORT	AWS-PCS LTE PORT	DC/AISG path selection
<7	<7	All ports OFF
7 ≤ V ≤ 30 <7	AWS-UMTS to ANT PORT ON	
/ 2 / 2 50	<7	AWS-PCS LTE to ANT OFF
<7	7 ≤ V ≤ 30	AWS-UMTS to ANT PORT ON
		AWS-PCS LTE to ANT OFF
7 ≤ V ≤ 30	7 ≤ V ≤ 30	All ports OFF

Environmental Specifications

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Ingress Protection Test Method	IEC 60529:2001, IP67
Packaging and Weights	
Included	Brackets

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Weight, without mounting hardware

8.8 kg | 19.401 lb

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