

UDX1926Q-N10 | E11F03P81



Ultra Compact Quad-pack Diplexer PCS/AWS+WCS+BRS, DC AWS/WCS /BRS, NEX10 Connector

- Quad configuration, 4x4 MIMO ready
- Ideal for small cell applications
- BTS-to-feeder and feeder-to-antenna application
- DC/AISG pass on 1695-1780/2110-2700 MHz
- Industry leading PIM performance

Product Classification

Product Type Diplexer

General Specifications

Color Gray

Common Port Label Common

Modularity 4-Quad

RF Connector Interface NEX10 Female

RF Connector Interface Body Style Long neck

Dimensions

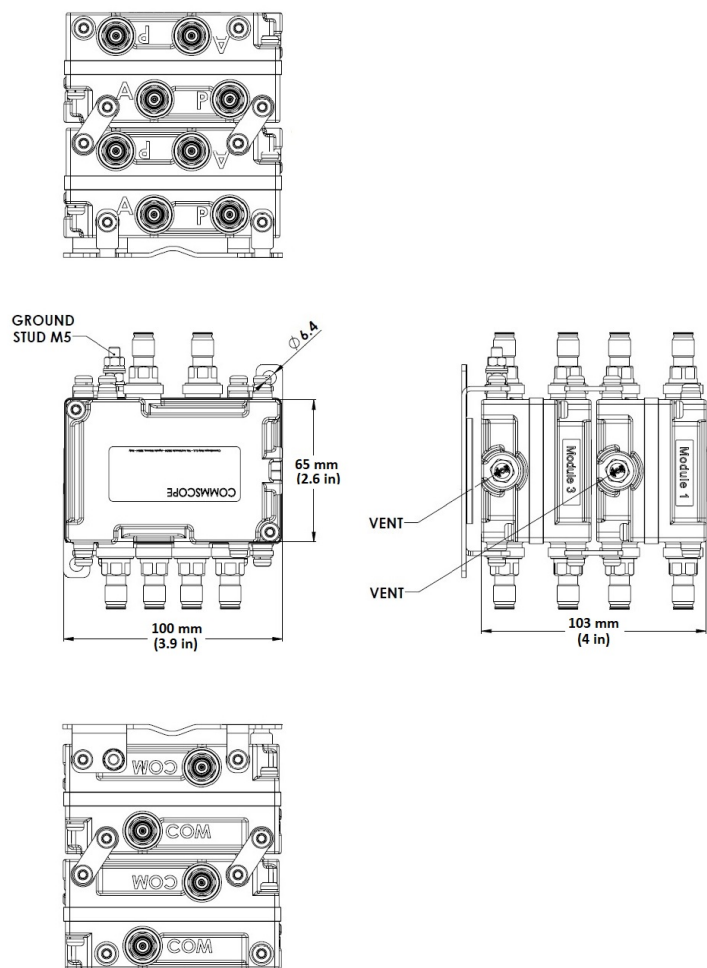
Height 65 mm | 2.559 in

Width 100 mm | 3.937 in

Depth 103 mm | 4.055 in

Outline Drawing

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Electrical Specifications

Impedance	50 ohm
License Band, Band Pass	AWS 1700 PCS 1900 TDD 1900 TDD 2300 TDD 2600 WCS 2300

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method	Factory set
dc/AISG Pass-through Path	Branch 2
dc/AISG Pass-through, combiner	Branch 2
dc/AISG Pass-through, demultiplexer	Branch 2
Lightning Surge Current	5 kA
Lightning Surge Current Waveform	8/20 waveform
Voltage	10–30 Vdc

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Electrical Specifications, AISG

AISG Carrier 2.176 MHz ± 100 ppm

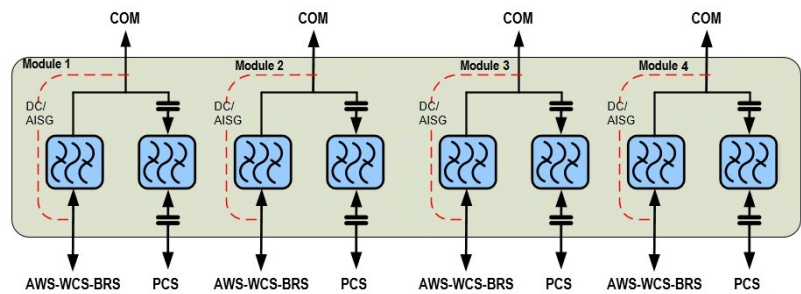
Electrical Specifications

Sub-module	1 2 3 4	1 2 3 4
Branch	1	2
Port Designation	PCS	AWS-WCS-BRS
License Band	PCS 1900, Band Pass	AWS 1700, Band Pass WCS 2300, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	1850-1995	1695-1780 2110-2700
Insertion Loss, typical, dB	0.25	0.18
Total Group Delay, maximum, ns	13	10
Return Loss, typical, dB	22	22
Isolation, minimum, dB	35	35
Input Power, RMS, maximum, W	100	100
Input Power, PEP, maximum, W	1500	1500
3rd Order PIM, maximum, dBc	-155	-155
3rd Order PIM Test Method	2 x 20 W CW tones	2 x 20 W CW tones

Block Diagram



Material Specifications

Finish Painted

Environmental Specifications

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

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Relative Humidity	Up to 100%
Ingress Protection Test Method	IEC 60529:2001, IP67

Packaging and Weights

Included	Mounting hardware
Mounting Hardware Weight	0.1 kg 0.22 lb
Weight, without mounting hardware	1.4 kg 3.086 lb