

Twin Quadplexer 850//900//1800//2100 MHz, dc smart bypass, with 4.3-10 connectors

- Twin configuration
- Suitable for feeders cables reduction
- DC/AISG SMART bypass functionality
- New 4.3-10 connectors for improved PIM performance and size reduction

OBSOLETE

This product was discontinued on: December 31, 2024

Product Classification

Product Type Quadplexer

General Specifications

Color Gray
Modularity 2-Twin

Mounting Pole | Wall

Mounting Pipe HardwareBand clamps (2)RF Connector Interface4.3-10 FemaleRF Connector Interface Body StyleMedium neck

Dimensions

 Height
 104 mm | 4.094 in

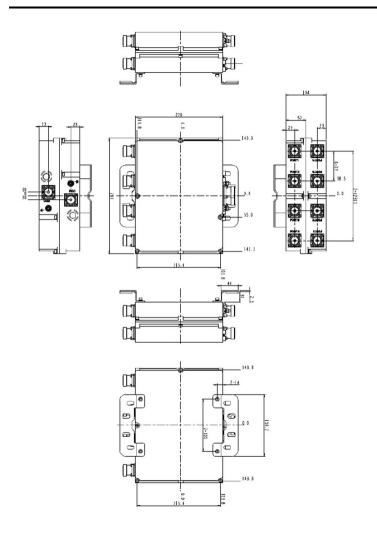
 Width
 297 mm | 11.693 in

 Depth
 226 mm | 8.898 in

Mounting Pipe Diameter Range 42.6–122 mm

Outline Drawing





Electrical Specifications

Impedance 50 ohm

License Band, Band PassAPT 700 | CEL 850 | CEL 900 | DCS 1800 | EDD 800 | IMT 2100 | IMT

2600 | LMR 800 | LMR 900 | TDD 2300

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through Method Auto sensing

dc/AISG Pass-through Path

Auto sensing circuitry detects dc/AISG signal presence and selects path

dc/AISG Pass-through, combinerdc Smart Bypassdc/AISG Pass-through, demultiplexerdc Smart Bypass

Lightning Surge Current 5 kA

Lightning Surge Current Waveform 8/20 waveform

ANDREW® an Amphenol company

Electrical Specifications, AISG

AISG Carrier 2176 KHz ± 100 ppm

 Insertion Loss, maximum
 1 dB

 Return Loss, minimum
 10 dB

Electrical Specifications

Sub-module	1 2	1 2	1 2	1 2
Branch	1	2	3	4

 Port Designation
 PORT 1 825-880
 PORT 2 906.8-960
 PORT 3 1710-1880
 PORT 4 1920-2170

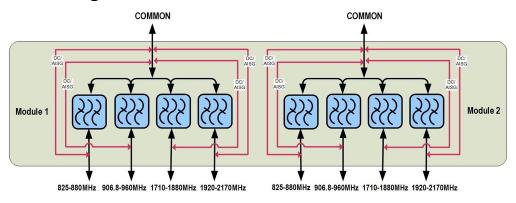
 License Band
 CEL 850, Band Pass LMR 900, Band Pass
 CEL 900, Band Pass LMR 900, Band Pass
 IMT 2100, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	825-880	906.8-960	1710-1880	1920-2170
Insertion Loss, maximum, dB	0.45	0.45	0.3	0.3
Return Loss, minimum, dB	18	18	18	18
Isolation, minimum, dB	50	50	50	50
Input Power, RMS, maximum, W	250	250	250	250
Input Power, PEP, maximum, W	2500	2500	2500	2500
3rd Order PIM, typical, dBc	-150	-150	-150	-150

3rd Order PIM Test MethodTwo +43 dBm carriers Two +43 dBm carriers Two +43 dBm carriers

Block Diagram



Mechanical Specifications

Wind Speed, maximum 216 km/h (134 mph)



Environmental Specifications

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

Relative Humidity 15%-100%

Corrosion Test Method IEC 60068-2-11, 30 days

Ingress Protection Test Method IEC 60529:2001, IP67

Vibration Test Method IEC 60068-2-6

Packaging and Weights

IncludedMounting hardwareWeight, net9.4 kg | 20.723 lb

