

Twin Triplexer 600/800/AWS-PCS-WCS-BRS, DC Sense, 4.3-10

- New 4.3-10 connectors for improved PIM performance and size reduction
- Automatic dc switching with dc sense
- BTS-to-feeder and feeder-to-antenna application
- Convertible mounting brackets
- DC Load Sense in Feeder-to-Antenna applications

Product Classification

Product Type Triplexer

General Specifications

Color Gray

Common Port LabelCommonModularity2-Twin

Mounting Pole | Wall

RF Connector Interface 4.3-10 Female

RF Connector Interface Body Style Long neck

Dimensions

 Height
 200 mm | 7.874 in

 Width
 200 mm | 7.874 in

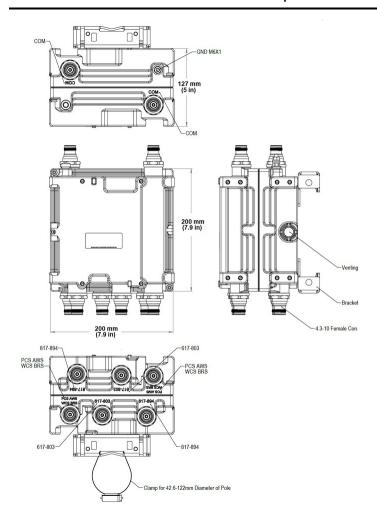
 Depth
 127 mm | 5 in

 Ground Screw Diameter
 6 mm | 0.236 in

 Mounting Pipe Diameter Range
 42.6-122 mm

Outline Drawing





Electrical Specifications

Impedance 50 ohm

License Band, Band PassAWS 1700 | CEL 850 | DCS 1800 | IMT 2100 | LMR 800 | PCS 1900 | TDD

2600 | USA 600 | USA 700 | USA 750 | WCS 2300

Electrical Specifications, Common Port

Composite Power, RMS 250 W

Electrical Specifications, dc Power/Alarm

dc/AISG Pass-through MethodAuto sensingdc/AISG Pass-through PathSee logic table

Lightning Surge Current 10 kA

Lightning Surge Current Waveform 8/20 waveform

ANDREW® an Amphenol company

Voltage 7–30 Vdc

Electrical Specifications, AISG

AISG Carrier 2176 KHz ± 100 ppm

Insertion Loss, maximum1 dBReturn Loss, minimum15 dB

Electrical Specifications

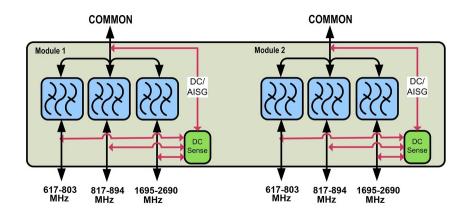
Sub-module	1 2	1 2	1 2
Branch	1	2	3
Port Designation	617-803	817-894	1695-2690
License Band	USA 700, Band Pass USA 750, Band Pass USA 600, Band Pass	CEL 850, Band Pass LMR 800, Band Pass	AWS 1700, Band Pass PCS 1900, Band Pass WCS 2300, Band Pass TDD 2600, Band Pass

Electrical Specifications, Band Pass

Frequency Range, MHz	617-803	817-894	1695-2200 2300-2690
Insertion Loss, typical, dB	0.2	0.3	0.1
Total Group Delay, maximum, ns	60	65	25
Return Loss, typical, dB	22	22	22
Isolation, typical, dB	50	50	65
Input Power, RMS, maximum, W	120	120	120
Input Power, PEP, maximum, W	1200	1200	1200
3rd Order PIM, minimum, dBc	-161	-161	-161
3rd Order PIM Test Method	2 x 20 W CW tones	2 x 20 W CW tones	2 x 20 W CW tones

Block Diagram





Logic Table

		Combining Mode	Operation (Bottom)	
PORT 1 617-803	PORT 2 817-894	PORT 3 1695-2690	COMMON	
RF Ports Input Voltage				DC/AISG Path Selection
Any*	Any*	7 ≤ V ≤ 30	<7	617-803 MHz "OFF" 817-894 MHz "OFF" 1695-2690 MHz "ON"
7 ≤ V ≤ 30	Any*	<7	<7	617-803 MHz "ON" 817-894 MHz "OFF" 1695-2690 MHz "OFF"
<7	7 ≤ V ≤ 30	<7	<7	617-803 MHz "OFF" 817-894 MHz "ON" 1695-2690 MHz "OFF"
<7	<7	<7	<7	ALL PORTS OFF



Note: When two or more DC/AISG are available, port with higher priority is bypassed to common

		Splitting Mode O	peration (Tower Top)	
RF Ports Impedance DC (Load Sense)				
PORT 1 617-803	PORT 2 817-894	PORT 3 1695-2690	COMMON	DC/AISG Path Selection
Short	Short	Short	7 ≤ V ≤ 30	ALL PORTS OFF
Open/ Load	Open/ Load	Open/ Load	7 ≤ V ≤ 30	ALL PORTS ON
One or more port(s) are Open/ Load		7 ≤ V ≤ 30	DC/AISG will be be passed to ALL Open/Load port(s)	

Note: In this mode DC/AISG will be passed to all detected ports and blocked at shortened ones

Environmental Specifications

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

Relative Humidity 5%-100%

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

Ingress Protection Test Method IEC 60529:2001, IP67

Packaging and Weights

Included Mounting hardware **Mounting Hardware Weight** 0.5 kg | 1.102 lb

Volume 5.1 L

Weight, without mounting hardware 6 kg | 13.228 lb

Regulatory Compliance/Certifications

Classification Agency

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

