

Twin TMA PCS/WCS with 555-894 MHz bypass,4.3-10 connectors

Product Classification

Product Type Tower mounted amplifier

General Specifications

RF Connector Interface 4.3-10 Female

RF Connector Interface Body Style Long neck

Dimensions

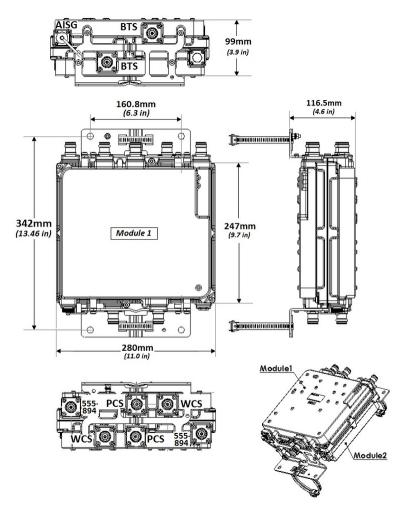
Height 247 mm | 9.724 in

Width 280 mm | 11.024 in

Depth 99 mm | 3.898 in

Ground Screw Diameter 5 mm | 0.197 in

Outline Drawing



Electrical Specifications

License Band, Band Pass CEL 850 | PCS 1900 | USA 700 | USA 750

License Band, LNA PCS 1900 | WCS 2300

Electrical Specifications, dc Power/Alarm

dc Switching/Redundancy Yes
Lightning Surge Current 10 kA

Lightning Surge Current Waveform8/20 waveformOperating Current at Voltage210 mA @ 12 Vdc

Alarm Current, CWA Mode 150 mA +/- 10 mA (10-18 VDC)



Electrical Specifications, AISG

AISG Carrier 2.176 MHz ± 100 ppm

AISG Connector 8-pin DIN Female

AISG Connector Standard IEC 60130-9

Protocol AISG 2.0

Voltage, AISG Mode 10-30 Vdc

Electrical Specifications

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

Port Designation ANT 555-894 ANT PCS ANT WCS

AISG 2.0 Device Subunit E25A01P11 1/3 E25A01P11 3/4

License Band CEL 850, Band Pass PCS 1900, LNA WCS 2300, LNA

USA 700, Band Pass USA 750, Band Pass

Return Loss - Bypass Mode, typical, dB 18 18

Electrical Specifications Rx (Uplink)

Frequency Range, MHz	1850-1910	2305-2315
Gain, nominal, dB	13	13
Noise Figure, typical, dB	1.4	1.4
Return Loss, minimum, dB	20	20
Insertion Loss - Bypass Mode, typical, dB	2.4	2.4

Electrical Specifications Tx (Downlink)

Frequency Range, MHz	1930-1990	2350-2360
Insertion Loss, typical, dB	0.45	0.45
Return Loss, minimum, dB	20	20
Input Power, RMS, maximum, W	200	200
Input Power, PEP, maximum, W	2000	2000
3rd Order PIM, maximum, dBc	-153	-153
3rd Order PIM Test Method	2 x 20 W CW tones	2 x 20 W CW tones

Electrical Specifications, Band Pass

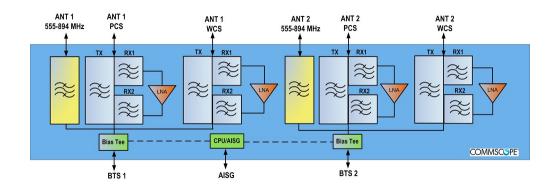
Frequency Range, MHz 555-894

Insertion Loss, maximum, dB 0.2



Return Loss, minimum, dB	20
Isolation, minimum, dB	60
Input Power, RMS, maximum, W	200
Input Power, PEP, maximum, W	2000
3rd Order PIM, maximum, dBc	-153

Block Diagram



Environmental Specifications

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

Relative Humidity Up to 100%

Corrosion Test Method IEC 60068-2-11, 30 days
Ingress Protection Test Method IEC 60529:2001, IP67

Packaging and Weights

Weight, net 9.7 kg | 21.385 lb

* Footnotes

License Band, Band Pass License Bands that are to be passed through with no amplification

License Band, LNALicense Bands that have RxUplink amplification

