

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** 

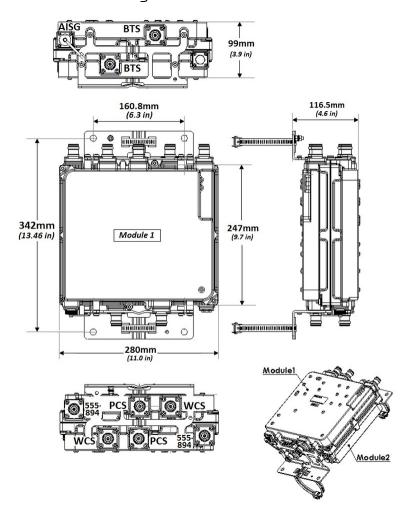
**Height** 247 mm | 9.724 in

**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)

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### 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

ANT 555-894 ANT PCS ANT WCS **Port Designation** 

**AISG 2.0 Device Subunit** 

**License Band** 

E25A01P11 1/3 E25A01P113/4

PCS 1900, LNA

WCS 2300, LNA

CEL 850, Band Pass USA 700, Band Pass USA 750, Band Pass

18 Return Loss - Bypass Mode, typical, dB 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

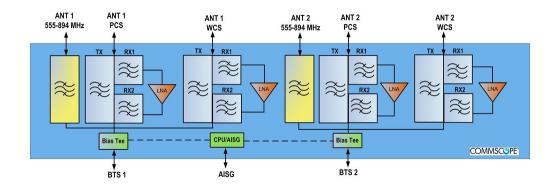
Frequency Range, MHz 555-894

Insertion Loss, maximum, dB 0.2

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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, LNA**License Bands that have RxUplink amplification

