E14R00P68



Tri Band Tower Mounted Amplifier, 1800/2100/2600 MHz, 12 dB, 4 BTS & 4 ANT ports, AISG with 1 RET connector (3 devices with 2 sub-units each), with 4.3-10 connectors, 700-900 & 1400 MHz Bypass

- Industry leading PIM performance
- New 4.3-10 connectors for improved PIM performance and size reduction
- Designed to boost UP-Link Coverage and KPIs
- 4 input ports and 4 output ports
- 3 devices with 2 sub-units
- TMA is operating in AISG mode
- TMA with 1350-1525 MHz bypass
- TMA with 698-960 MHz bypass

Product Classification

Product Type 4-BTS:4-ANT (Quadplex)

General Specifications

Color Gray
Modularity 2-Twin

Mounting Pole | Wall

Mounting Pipe Hardware Band clamps (2)

RF Connector Interface 4.3-10 Female

Dimensions

 Height
 316 mm | 12.441 in

 Width
 300 mm | 11.811 in

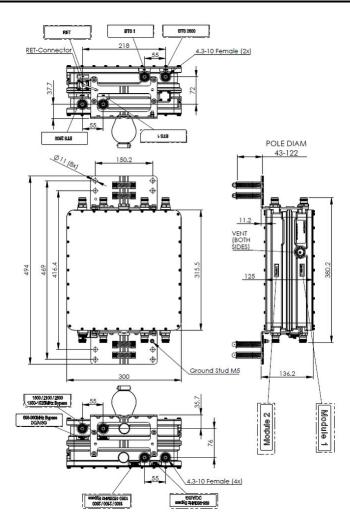
 Depth
 125 mm | 4.921 in

Mounting Pipe Diameter Range 42.6–122 mm

Outline Drawing



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Electrical Specifications

License Band, LNA DCS 1800 | IMT 2100 | IMT 2600

Electrical Specifications, dc Power/Alarm

dc Switching/Redundancy Yes
Lightning Surge Current 10 kA

Lightning Surge Current Waveform 8/20 waveform

Electrical Specifications, AISG

AISG Connector 8-pin DIN Female
AISG Connector Standard IEC 60130-9
Protocol AISG 2.0

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E14RUUP00			
Voltage, AISG Mode	10-30 Vdc		
Electrical Specifications			
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Sub-module	1 2	1 2	1 2
Branch	1	2	3
Port Designation	ANT	ANT	ANT
License Band	DCS 1800, LNA	IMT 2100, LNA	IMT 2600, LNA
Return Loss, typical, dB	20	20	20
Return Loss - Bypass Mode, typical, dB	16	16	16
Electrical Specifications Rx	(Uplink)		
Frequency Range, MHz	1710-1785	1920-1980	2500-2570
Bandwidth, MHz	75	60	70
Gain, nominal, dB	12	12	12
Noise Figure, typical, dB	1.4	1.5	1.5
Total Group Delay, typical, ns	120	60	60
Insertion Loss - Bypass Mode, typical, dB	2.2	2	2.3
Electrical Specifications Tx	(Downlink)		
Frequency Range, MHz	1805-1880	2110-2170	2620-2690
Bandwidth, MHz	75	60	70
Insertion Loss, typical, dB	0.5	0.35	0.45
Total Group Delay, typical, ns	50	25	30
Return Loss, typical, dB	20	20	20
Input Power, RMS, maximum, W	200	200	200
Input Power, PEP, maximum, W	2000	2000	2000
3rd Order PIM, typical, dBc	-160	-160	-160
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers	Two +43 dBm carriers
Electrical Specifications, B	and Pass		
Frequency Range, MHz	698-960		1350-1525
Insertion Loss, typical, dB	0.2		0.2
Total Group Delay, typical, ns	5		15
Return Loss, typical, dB	19		20
Input Power, RMS, maximum, W	200		200

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1000

1000

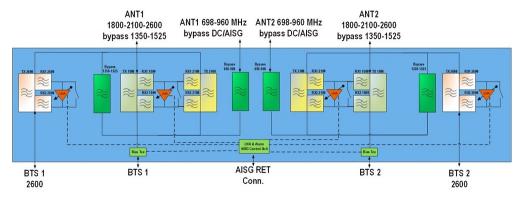
Input Power, PEP, maximum, W

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3rd Order PIM, typical, dBc -160 -160

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

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

Included Mounting hardware

Volume 11.8 L

Weight, net 15.2 kg | 33.51 lb

Regulatory Compliance/Certifications

Agency Classification

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



* Footnotes

License Band, LNALicense Bands that have RxUplink amplification

COMMSC PE®