E14R50P11



Dual Band Tower Mounted Amplifier, 700//900 MHz, 12 dB, 2 BTS & 4 ANT ports, AISG with 1 RET connector (2 device with 2 sub-units), with 4.3-10 connectors

- Industry leading PIM performance
- New 4.3-10 connectors for improved PIM performance and size reduction
- Designed to boost UP-Link Coverage and KPIs
- 2 input ports and 4 output ports
- Automatic LNA by-pass function
- TMA is operating in AISG mode
- Single AISG with 1 RET connector
- 2 devices with 2 sub-units
- Built in lightning protection

Product Type	1-BTS:1-ANT (Uniplex) Tower mounted amplifier
General Specifications	
Color	Gray
Modularity	2-Twin
Mounting Pipe Hardware	Band clamps (2)
RF Connector Interface	4.3-10 Female
Dimensions	
Height	274 mm 10.787 in
Width	266 mm 10.472 in
Depth	113 mm 4.449 in

Mounting Pipe Diameter Range

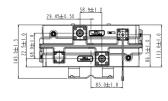
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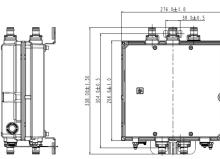
42.6-122 mm

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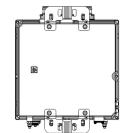
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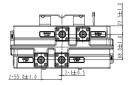
Outline Drawing











Electrical Specifications

License Band, Band Pass	APT 700
License Band, LNA	APT 700 CEL 900 EDD 800

Electrical Specifications, dc Power/Alarm

dc Switching/Redundancy	Yes
Lightning Surge Current	10 kA
Lightning Surge Current Waveform	8/20 waveform
Alarm Current, CWA Mode	190 mA ±10 mA

Electrical Specifications, AISG

AISG Connector	8-pin DIN Female
AISG Connector Standard	IEC 60130-9
Protocol	AISG 2.0
Voltage, AISG Mode	10-30 Vdc

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Electrical Specifications

Sub-module	1 2	1 2
Branch	1	2
Port Designation	ANT 700	ANT 900
License Band	APT 700, Band Pass APT 700, LNA	CEL 900, LNA
Return Loss, typical, dB	20	20
Return Loss - Bypass Mode, typical, dB	18	18

Electrical Specifications Rx (Uplink)

Frequency Range, MHz	703–733	880-915
Bandwidth, MHz	30	35
Gain, nominal, dB	12	12
Noise Figure, typical, dB	1.25	1.35
Group Delay Variation, maximum, ns	90	100
Group Delay Variation Bandwidth, MHz	5	5
Total Group Delay, maximum, ns	200	225
Total Group Delay, typical, ns	150	200
Return Loss, minimum, dB	18	18
Insertion Loss - Bypass Mode, typical, dB	1.5	1.2

Electrical Specifications Tx (Downlink)

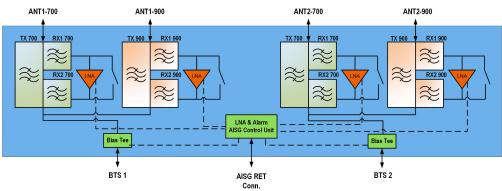
Frequency Range, MHz	758-788	925-960
Bandwidth, MHz	30	35
Insertion Loss, maximum, dB	0.6	0.75
Insertion Loss, typical, dB	0.4	0.6
Group Delay Variation, maximum, ns	35	35
Group Delay Variation Bandwidth, MHz	5	5
Total Group Delay, maximum, ns	80	85
Total Group Delay, typical, ns	70	60
Return Loss, minimum, dB	18	18
Return Loss, typical, dB	20	20
Input Power, RMS, maximum, W	200	200
Input Power, PEP, maximum, W	2500	2500
3rd Order PIM, typical, dBc	-162	-162
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers

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Block Diagram



Environmental Specifications

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °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	8.3 L
Weight, net	9 kg 19.842 lb

Regulatory Compliance/Certifications

Agency

Classification

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system



* 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

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