

CDMA450 450MHz Tower Mounted Amplifier

- Low Noise Figure
- Solid State By-Pass
- Nominal 13-15 dB Gain
- IP68 Environmental Rating
- Lightning Protection
- Compact, Rugged Design

The CDMA450 MHz TMA provides uplink amplification at the cell site increasing the receive performance of the base station. Improved receive performance results in fewer dropped calls, lower bit error rate and improved battery life of subscriber devices. This CDMA450 MHz tower mounted amplifier is also available in dual configuration and for channel specific applications.



CDMA450 TMA SPECIFICATIONS

Tx Specs

Frequency Range (MHz)	453 – 457.5
Bandwidth (MHz)	4.5
Ripple (dB)	+/-0.20
Insertion Loss (dB)	<0.5
Return Loss (dB) (VSWR)	>18 (<1.29:1)

Rx Specs

Frequency Range (MHz)	463 – 467.5
Bandwidth (MHz)	4.5
Ripple over temp. & freq. (dB)	+/-0.9
Noise Figure (dB)	<2.0
	1.7 typical
Nominal Gain (dB)	13.0 to 15.0
Output IP3 (dBm)	>+23
Return Loss (dB) (VSWR)	>18 (<1.29:1)
Insertion Loss in By-Pass (dB)	<2.0
Return Loss in By-Pass (dB)	>14.0

Other Specs

MTBF (hours)	>500,000
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Accessories

- Other configurations available (e.g. 7.5 MHz and 16 MHz bands). Consult factory for details.
- PDUs and BIAS-Ts available
- Coverage Kits available – one box solution includes all tower-top units, PDU, BIAS-Ts and cables to equip one BTS

Mechanical Specs

Dimensions (mm)	210 x 352 x 122
Weight (kg)	<10
Connectors (BTS, ANT)	7/16 Female

Environmental Specs

Operating Temp Range (Celsius)	-40 to +65
Enclosure Protection	IP 68
Lightning Protection	YES

System Specs

Channel Rejection (dB)	>50
Intermodulation (dBm)	<-115*
DC Supply (Vdc)	+10 to +15
* 2 Tx carriers +43 dBm each, IMD in Rx band	

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