

1900 Twin Tower Mounted Amplifier (TMA) –



REMEC-HIMARK TMA helps reduce the cost of base station deployment by extending cell coverage.

They also significantly improve call quality and reduce the number of dropped calls, which is the number one reason for customer churn.

REMEC-HIMARK TMAs improve in-building coverage and reduce overall system bit error rate, which is vitally important for data applications.

These units have the best noise and lightning performance available and are IP68 rated for full water immersion.

FEATURES

- Market leading low noise performance
- Simple installation
- Bypass in “power down” mode
- Rugged and highly reliable
- Excellent lightning protection
- Full water immersion (IP68) specification

BENEFITS

- Extends cellular coverage
- Reduces bit error rate – vital for data applications
- Significantly reduces roll out costs
- Improves call quality
- Reduces dropped calls
- Enhances in-building coverage
- Increases handset battery life

All specifications subject to change without notice. Please contact your representative for complete performance data.

1900MHz Twin Channel TMA Electrical Specifications

Receive Path		Transmit Path	
Frequency Range	1903.75 ~ 1908.75MHz	Frequency Range	1983.75 ~ 1988.75MHz
Operation Band	5MHz	Operation Band	5MHz
Noise Figure	<= 1.8dB, typical	Insertion Loss	<= 0.6dB
Gain	12dB± 1dB	In-band ripple	<= ±0.3dB
Gain adjustable range	N/A	Max Power Handling	>= 53dBm CW
Output IP3	>= +27dBm	Return Loss	>= 18dB
Loss in Bypass mode	1.9 dB typical, 2.1 dB maximum	Uplink rejection	>= 60dB
Return Loss	>= 18dB	PIM 2 x 20W	<= -120dBm
Downlink rejection at LNA input	>= 100dB		
System Performance			
Power Voltage	+10 ~ +15VDC	Operation current	120mA, typical
Mechanical			
Size	400mm×280mm×80mm	Weight	5Kg
EMC	ETS300 019-1-4	MTBF	> 1000000hrs
RF Connector (BTS)	7/16 DIN Female	RF Connector (ANT)	7/16 DIN Female
Colour	Painted Light Grey		
Environmental			
Operation Temperature	-40°C ~ +65°C	Enclosure	IP68
Humidity	95%	Lighting Protection (ANT)	DC Ground
Lighting Protection (BTS)	8/20μ s 20kA Pulse		

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