

GSM900 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

GSM900 Single Channel TMA Electrical Specifications

Receive Path		Transmit Path	
Frequency Range	890 ~ 915MHz or Customize	Frequency Range	935 ~ 960MHz or Customize
Operation Band	25MHz or Customize	Operation Band	25MHz or Customize
Noise Figure	≤1.6dB	Insertion Loss	≤0.5dB
Gain	12dB±1dB	In-band ripple	≤±0.3dB
Gain adjustable range	N/A	Max Power Handling	≥50dBm CW
Output P-1dB	≥+10dBm	Max Power Handling	≥58dBm Peak
Output IP3	≥+25dBm	Return Loss	≥18dB
Loss in Bypass mode	≤2.1dB		
Return Loss	≥18dB		
System Performance			
RX/TX Rejection	≥80dB	Intermodulation	≤-110dBm
Power Voltage	+8.5 ~ +13.5VDC	Operation current	100±20mA
Mechanical			
Size	312mm×162mm×112mm	Weight	6.5Kg
EMC	ETS300 342-3	MTBF	> 1000000hrs
RF Connector (BTS)	7/16	RF Connector (ANT)	7/16
Environmental			
Operation Temperature	-40°C ~ +65°C	Storage Temperature	-45°C ~ +85°C
Humidity	100%	Enclosure	IP68
Lighting Protection (BTS)	8/20μs 10kA Pulse	Lighting Protection (ANT)	DC Ground