

## *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