



Dual Channel TMA for GSM (ATMA-1800G)

* Description

The Actipass Tower Mounted Amplifier comprises of high Q Band pass filter, very low loss switch, and low noise LNA with circuit for By-Pass mode.

We especially design with all active components intergrated within the filter body providing a reliable, compact size and lightweight TMA solution.

* Features

- Compact size, lightweight, high performance
- Dual channel
- Improved base station sensitivity
- High reliability with by pass-mode

1. Technical Specification

No	General Requirements	Specification	Remark
1	Frequency Range	Uplink band : 1710 ~ 1730MHz, Downlink band : 1805 ~ 1825MHZ	
2	Uplink Gain	15dB \pm 1dB	
3	Uplink Noise Figure	1.6dB max.	
4	Downlink Insertion Loss	0.5dB typ. (0.7dB max.)	Over operating Temperature.
5	Return Loss	Downlink input	18dB min.
		Downlink Output	18dB min.
		Uplink Input	18dB min.
		Uplink Output	15dB min.
6	Pass Band Ripple	Downlink	0.2dB max.
		Uplink	0.5dB max.

7	Down Link Output power	50Watt max.	GSM Signal
8	Uplink IP3	25dBm min.	
9	Uplink P1dB	10dBm min.	
10	Insertion Loss @Uplink Bypass Mode	2dB max.	
11	Operating Temperature:	-30 ~ +70 °C	
12	Voltage	13V DC on RF cable	Operating Range (5.5V~30V)
13	Current	250mA max.	
14	Connector	SMA(F)	
15	Size (Length X Height X Width)	160mm X 60mm X 100mm	Exclude connectors

2. Functional Block Diagram

