

## ► TMA (Tower Mount Amplifier) for GSM 900MHz Band

### 1.1. Features

- High Performance
- High Reliability
- Coaxial Type

### 1.2. Electrical Specifications

Specifications	
Pass band Rx (Uplink)	890-915 MHz
Pass band Tx (Downlink)	935-960 MHz
Bandwidth Tx and Rx	25 MHz
Input & Output Impedance	50 Ohms
Noise Figure typical mid band	1.7 dB
Rx Gain	12 dB
Gain variation	< 0.7 dB
Bypass insertion loss mid band	< 2.0 dB
Insertion loss Tx typical mid band	0.35 dB
Insertion loss Tx band-edge	0.35 dB
Return Loss, all ports	> 18 dB
Return loss, all ports, LNA bypass	>12 dB
Input compression point P1	
Input intercept (IIP3)	>10 dBm ***
Input power with no damage, Rx band	15 dBm**
Intermodulation	
IMD at ANT. port in Rx band (2 X 43dBm in Tx band at BTS port)	-116 dBm/-159 dBc
Continuous average power	200 W
DC supply voltage	12 V
DC Power Supply (standard)	PDU Lite
Body Temperature Range	-40°C to +70°C
Environmental Rating	IP-65
RF Connectors	7/16 female
Mounting	Plate and V-Brackets
Lightning protection	IEC 1312-1,10/350 us pulse, 50 KA

\*(normal environmental conditions), <2.5 dB (extreme environmental conditions).

\*\* 53 dBm is the maximum power in DL (Tx).

\*\*\* Output IP3 >25 dBm.

## 2. Drawing

