



900MHz, 2 Watt Amplifier OEM Version Item # 90303

The latest version of 900MHz OEM amplifier module gives linear peak power of 2 Watt with 20dB of Tx gain. Up to 30dB of Tx gain is available upon request.

The light weight, small size and flexible power supply options of this amplifier make it ideal for portable 900MHz ISM band operation in applications such as model aircraft, telemetry, robotics, industrial controls etc.. The fast receive/transmit switching time make this amplifier an ideal range boosting option for widely available radios that employ Time Division Duplexing technologies (FHSS, DSSS, OFDM etc.)

A highly efficient amplifier that consumes only 45mA of power during Rx mode. It can be powered via regulated 5V DC or unregulated 6~14V DC.

Salient features include:

- 2 Wat linear peak & 4 Watt saturated peak output power
- 20dB Tx gain, (up to 30dB available upon request)
- 18dB Rx gain
- 0.75" x 1.75" PCB
- Status LED for Tx, Rx
- High speed switching between Tx/Rx for all data rates.
- Highly efficient in power consumption
- Made in USA



Specifications

Electrical:

Operating Range	902 - 928 MHz
Operating Mode	TDD, Time Division duplex,
Transmit Power	2W (33dBm) -P1dB
Transmit Gain	20 dB (up to 30dB optional)
Transmit input Power	0dB min +/- 1 (trigger point) 15 dBm max
Receive Gain	18 dB
Noise Figure	3.5 dB
LED indicators	Red for Receive Green for Transmit
Power Consumption @ 6V DC	Rx: 45mA,Tx: 800mA, average less than 300mA
Operating Temp	-40 °C to + 70 °C

Mechanical:

Dimensions	0.75" x 1.75" x 0.15 (H)
RF connectors	SMA females
DC input	Via DC cable directly soldered on the unit
Weight	0.1 Oz

Last updated: June9, 2020