



5.8 GHz, 802.11a Amplifier Coax Series Item 58101 Rev B

Shireen's new generation of 5.8GHz Coax amplifiers are designed for OFMD radios and offer very linear performance. With peak output power of 2Watt (33dBm) these can be used as 500mW~1W amps for 802.11a equipment. These are the smallest bi-directional amplifiers in 5~6GHz with 2 watt peak power in the market today.



Being offered in patented outdoor enclosure, featuring:

- Smallest housing that does not require mounting
- Unique heat dissipation mechanism
- Field diagnostics and serviceability without tools
- Male/female gender for easy insertion
- Complete kit includes amplifier, DC injectors & power supply

Specifications

Electrical:

| | |
|-----------------------------------|--|
| Operating Range | 5725 - 5875 MHz (4.9~6.0 GHz version available upon request) |
| Operating Mode | TDD, Time Division Duplex, |
| Transmit Power | 33dBm Peak 500mW ~1 Watt for OFDM |
| Transmit Gain | 20dB |
| Transmit input Power | 3dBm min 15dBm max |
| Receive Gain | 22 dB |
| Noise Figure | 3.5 dB |
| LED indicators (inside the cover) | Red for Receive; Green for Transmit |
| Power Consumption | Rx: 45mA Tx: 1.4A @ 6V DC |
| Operating Temp | -40 °C to + 70 °C |

Absolute Minimum & Maximum values

| | | |
|------------|-----------|-----------|
| RF input | 0 dBm min | 15dBm max |
| DC voltage | 5.5V DC | 14 V DC |



Mechanical:

| | Amplifier | DC Injector |
|------------|------------------------------|-----------------------------|
| Dimension | 4.1" long , 1.1" diameter | 3.5" x 2.2" x 1.1" |
| Enclosure | Watertight, machined housing | Indoor, machined AL housing |
| Connectors | Type N male / female | Type N Females |
| Weight | 10 Oz. | 6 Oz. |