

## RF Power Amplifier



### Specifications

- **Frequency Range:** 700Mhz to 2.1Ghz
- **Frequency modulation types:** GSM, WCDMA and CW
- **Gain:** Typical 43dB
- **Power Output:** 20 Watts, @ 1dB point
- **Built in Amplifier Safeguards**
  - VSWR protection with fault indicator when excessive power is reflected
  - **Metering:** Forward and reflected power metering via analog voltage of 1-5VDC
  - **Temperature:** Monitors heat sink temperature with over temperature shut down with fault indicator
  - **Power:** Exceeding maximum power will cause the amplifier to shut down
  - **Automatic Level Control:** Feedback control loop maintains constant output level, can be user disabled
  - **Gain control:** 0-5VDC analog gain control
  - **Mute control:** Reduces power to a low level so that it is safe for switching applications
  - **Input overdrive protection:** reduces drive to power amplifier when input level exceeds limits
  - **No input:** low gain mode to prevent amplifier over-drive when input power is restored, with indicator
- **Operating Voltage:** 28 volts +/- 1VDC
- **Operating Temperature:** 0-50 C°
- **Input and Output VSWR:** 1.5:1
- **Mechanical size:** typical is 3.4" x 8.4" x 1"
- **Non-Hermetic:** Standard packaging
- **Third order intercept point:** +55dBm Typ
- **Harmonics @ Pout=20W:** -50dBc Type
- **Spurious Signals:** -70dBc Typ
- **Connector type:** SMA
- **Efficiency:** >30%

