## **Power Amplifier - 50 watts**

Model QBS-563 (1710 - 1880 MHz)





## **Features**

- High Output: 50 watts
- Class AB Design
- Ultra High Efficiency...up to 50%
- Gain: 34 dB
- Supply: +28 volts
- Impedance: 50 ohms

## **Description**

The QBS-563 is class AB amplifier with a narrow band frequency range of 1710 to 1880 MHz. Operating over a DC input voltage of +28 Vdc, the QBS-563 provides 34 dB small signal gain. Output power of +44 dBm is provided over the 1710 to 1880 MHz frequency band. Typical current drawn from a +28 V supply at +44 dBm output power is 3000 mA.

#### **Added Features**

- •Internal Voltage Regulator: Supplies from+28 to +32 volts
- Thermal Temperature Compensating Circuits
- High Input Protection Circuitry
- Built-in Fault Monitoring
- Built-in User Control Interfaces
- Harmonic Filters

### **Typical Specifications**

Frequency 1710 to 1880 MHz

Output Power +44 dBm

Saturated Output Power +51 dBm (over band)

Small Signal Gain 34 dB
Gain Flatness +/- 1 dB
IP3 +56 dBm
Reverse Isolation 50 dB
Impedance 50 ohms

DC Power +28 V / 3000 mA Temp Range -40°C to +85°C

All specifications above typical, measured at 25 °C

#### **Dimensions and Connections**

8.0" L x 3.5" W x 1.29" H

Hermetically sealed housing, available with field replaceable SMA connectors, or gold plated pins for through board mount.

## **Maximum Ratings**

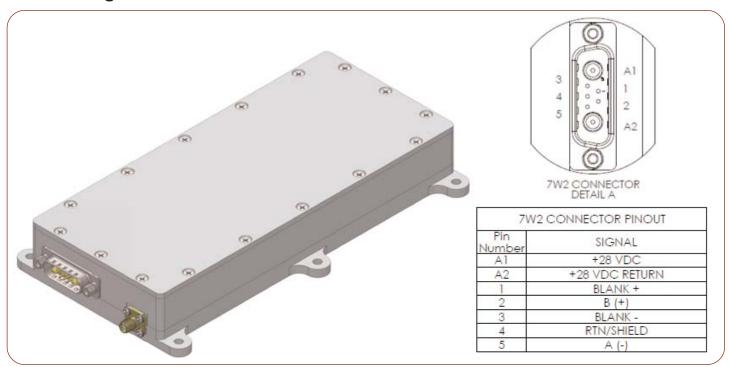
Operating Temperature -55°C to +100°C Storage Temperature -62°C to +125°C

DC Voltage at 25°C +34 volts
Input Drive at 25°C +28 dBm

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## **Control Logic**



## **Outline Drawing**

