

RF AMPLIFIER

MODEL QBS-234

Available as: QBS-234, SMA Connectorized Housing

Features

- High Output Power: +42 dBm Typical
- High Third Order Intercept: +60 dBm Typical
- High Second Order Intercept: +65 dBm Typical
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	1930 - 1990 MHz	1930 - 1990 MHz
Gain (dB)	40	38 Min.
Power @ 1 dB Comp. (dBm)	+42	+40 Min.
Reverse Isolation (dB)	35	30 Min.
VSWR In	2.0:1	2.5:1 Max.
Out	2.0:1	2.5:1 Max.
Noise Figure (dB)	6.0	6.5 Max.
Power Vdc	+15	+15
m A	5500	6000 Max.

Note: Care should always be taken to effectively ground the case of each unit.

Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point.....+65 dBm (Typ.)
 Second Order Two Tone Intercept Point.....+60 dBm (Typ.)
 Third Order Two Tone Intercept Point.....+52 dBm (Typ.)

Maximum Ratings

Ambient Operating Temperature -55°C to +125 °C
 Storage Temperature -62°C to +150 °C
 Case Temperature +125 °C
 DC Voltage +18 Volts
 Continuous RF Input Power +13 dBm
 Short Term RF Input Power 50 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 µsec Max.)

Typical Performance Data

