

RF Amplifier

High Gain: 28.0 dB

Model QBH-8702

1850 to 1910 MHz

Features

- High Gain: 28.0 dB Typical
- High Power: +25 dBm Typical
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX
Frequency	1850 - 1910 MHz	—
Gain (dB)	28.0 ±1.0	—
Gain vs. Temperature	—	—
Gain Flatness	0.9	—
Reverse Isolation (dB)	-44	—
VSWR In	1.5:1	—
Out	1.5:1	—
1 dB Compression (dBm)	+25	—
Output Intercept point	—	—
3rd Order	+37	—
2nd Order	—	—
Noise Figure (dB)	1.2	—
Power Vdc	+12	—
mA	190	—

Maximum Ratings

Ambient Operating Temperature -55°C to +125 °C
 Storage Temperature -65°C to + 150 °C
 Case Temperature + 125 °C
 DC Voltage + 15.5 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.)

Note:

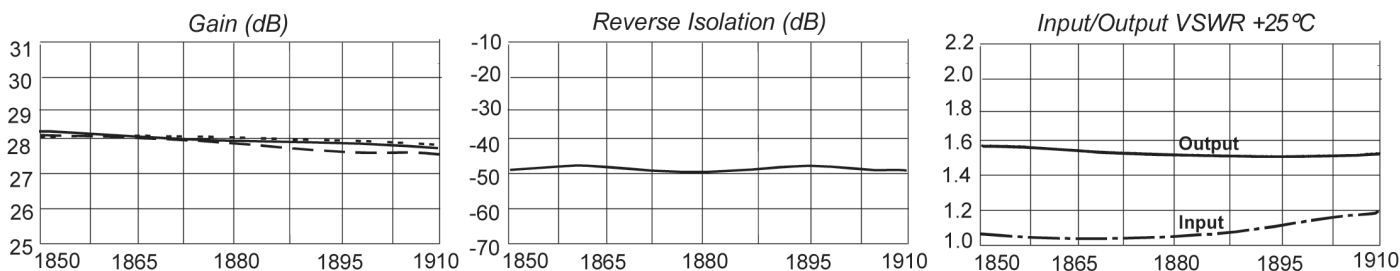
- Specifications are guaranteed when tested in a 50 Ohm system.
 Specifications indicated as typical are not guaranteed.

Packaging Options (see Appendix)

QBH-8702, Hybrid SM (E52-19422)

Legend ——— + 25 °C --- + 70 °C - - - - - -40 °C

Typical Performance Data



Linear S-Parameters Data

FREQ. MHz	-- S11 -- dB Ang	-- S21 -- dB Ang	-- S12 -- dB Ang	-- S22 -- dB Ang
1850	-29.3 24.2	28.2 -91.9	-47.5 177.2	-13.4 144.1
1860	-30.1 48.5	28.1 -95.3	-46.4 167.4	-13.5 141.7
1870	-33.0 73.4	28.0 -98.5	-47.9 178.2	-13.8 139.8
1880	-31.3 136.3	27.9 -101.3	-48.5 178.0	-14.1 139.6
1890	-27.4 149.6	27.9 -104.5	-45.9 -175.9	-14.1 139.2
1900	-23.0 152.2	27.8 -107.7	-49.1 177.8	-14.0 137.1
1910	-20.5 151.2	27.7 -111.3	-48.7 162.7	-13.9 134.3