RF AMPLIFIER MODEL QBH-8702

Available as: QBH-8702, Hybrid SM (E52-19422)

Features

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

Specifications

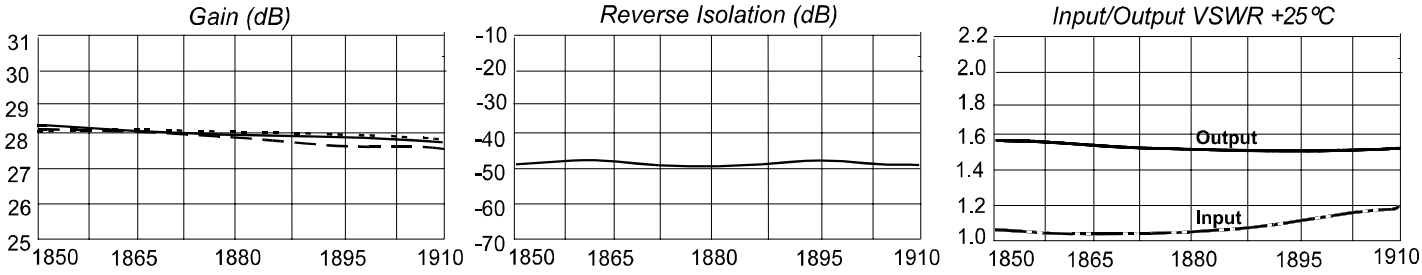
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX
Frequency	1850 - 1910 MHz	—
Gain (dB)	28.0 ±1.0	—
Gain vs. Temperature	—	—
Gain Flatness	0.9	—
Reverse Isolation (dB)	-44	—
VSWR In Out	1.5:1 1.5:1	—
1 dB Compression (dBm)	+25	—
Output Intercept Point 3rd Order 2nd Order	 +37 —	—
Noise Figure (dB)	1.2	—
Power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

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

Absolute Maximum (No Damage) Ratings

Ambient Operating Temperature ..... -55ºC to +125 ºC
Storage Temperature ..... -65ºC to +150 ºC
Case Temperature ..... +125 ºC
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.)

Typical Performance Data



Legend ——— *+25 ºC* – – – *+70 ºC* - - - - - - *-40 ºC*

Linear S-Parameters Data

FREQ. MHz	S11 dB	S11 Ang	S21 dB	S21 Ang	S12 dB	S12 Ang	S22 dB	S22 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

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