

RF AMPLIFIER

MODEL *TM9064*

Available as: TM9064, 4 Pin 0.500" TO-8 (T4)
 TN9064, 4 Pin 0.450" Sq. Surface Mount (SM3)
 BX9064, SMA Connectorized Housing (H1L-Laser)
 BXP9064, SMA Connectorized Housing (HPak)

Features

- Ultra Broad Bandwidth 100-3000 MHz
- High Gain: 18.5 dB Typical
- Cross to the Cougar AC3064, our Model BX9064
- Cross to the Cougar ACP3064, our Model BXP9064
- Screening to the Tables of MIL-STD-883 Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	100 - 3000 MHz	100 - 3000 MHz
Gain	18.5 dB	16.5 dB Min.
Gain Flatness	+/- 0.3 dB	+/- 0.8 dB Max.
Noise Figure (dB) (400-3000 MHz) (100-400 MHz)	3.3 dB 4.5 dB	4.5 dB Max. 5.5 dB Max.
VSWR In	1.5:1	2.0:1 Max.
VSWR Out	1.5:1	2.0:1 Max.
Power Output @ 1 dB Comp. (dBm)	+16.5 dBm	+15.0 dBm
Reverse Isolation (dB)	-36 dB	-
Power Vdc	+15	+15
mA	80	88 Max.

Typical Intermodulation Performance at 25 °C

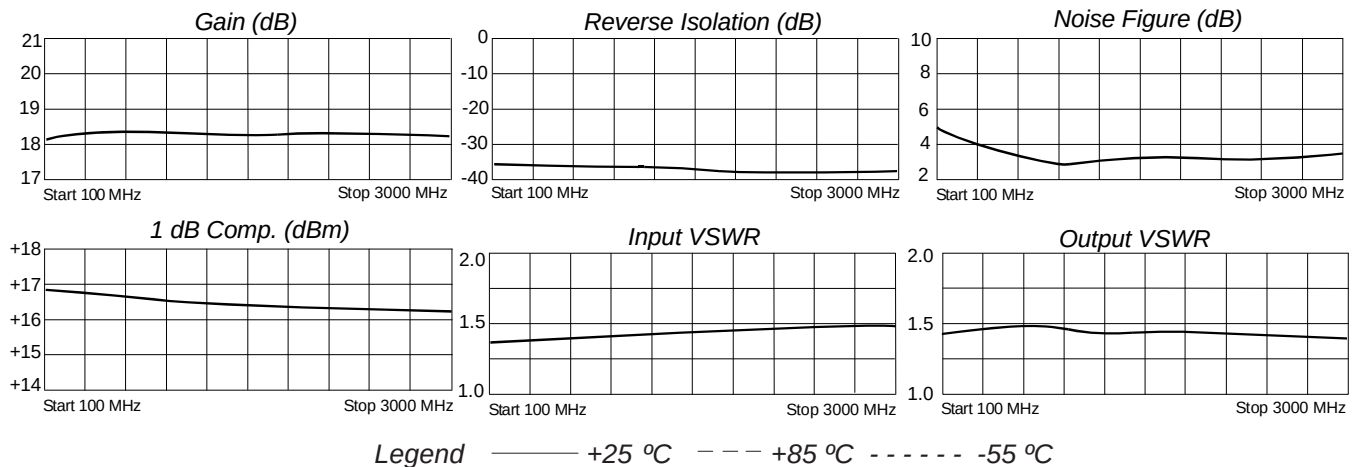
Second Order Harmonic Intercept Point.....+52 dBm (Typ.)
 Second Order Two Tone Intercept Point.....+46 dBm (Typ.)
 Third Order Two Tone Intercept Point.....+27 dBm (Typ.)
 (Typical at 25°C under a +15 volt supply)

Maximum (No Damage) Ratings

Ambient Operating Temperature-55°C to +100 °C
 Storage Temperature-62°C to +125 °C
 Case Temperature+125 °C
 DC Voltage+17 Volts
 Continuous RF Input Power+13 dBm
 Short Term RF Input Power 100 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 µsec Max.)

Note: Care should always be taken to effectively ground the case of each unit.
 Revision 5/16/2012

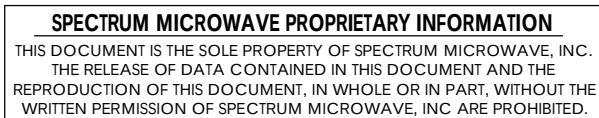
Typical Performance Data



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THIS ASSEMBLY CONTAINS PARTS SENSITIVE
TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD).
USE ESD PRECAUTIONARY PROCEDURES WHEN
TOUCHING, REMOVING OR INSERTING

ANSI 

DRAWN
WAR
CHECKED

DATE	2012/05/14
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ENGRG
H PHAM
MFG

2012/05/14

QA

SPECTRUM MICROWAVE, INC
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	TITLE
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OUTLINE, HPAK

[illegible]

CAGE CODE

DWG NO.

088-00304

REV

P1

SCALE:

1.5:1

SHEET

1 OF **1**