

RF AMPLIFIER

MODEL *TM3041PM*

Available as: TM3041PM, 4 Pin TO-8 (T4)
 TN3041PM, 4 Pin Surface Mount (SM3)
 FP3041PM, 4 Pin Flatpack (FP4)
 BX3041PM, Connectorized Housing (H1)

Features

- Superior Phase Noise Performance
- High Output Power: +24 dBm Typical
- Operating Temp. -55 °C to +85 °C
- Environmental Screening Available

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency (MHz)	10 - 300 MHz	10 - 300 MHz
Gain (dB)	16.5	15.5 Min.
Power @ 1 dB Comp. (dBm)	+24.0	+23.0 Min.
Reverse Isolation (dB)	- 20	-19 Max.
VSWR In	1.80:1	2.0:1 Max.
VSWR Out	1.80:1	2.0:1 Max.
Noise Figure (dB)	2.8	4.0 Max.
Power Vdc	+15	+15
mA	80	85 Max.

Note: Care should always be taken to effectively ground the case of each unit.
 Revision 4/25/2012

Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +55 dBm (Typ.)
 Second Order Two Tone Intercept Point +50 dBm (Typ.)
 Third Order Two Tone Intercept Point +38 dBm (Typ.)

Maximum (No Damage) Ratings

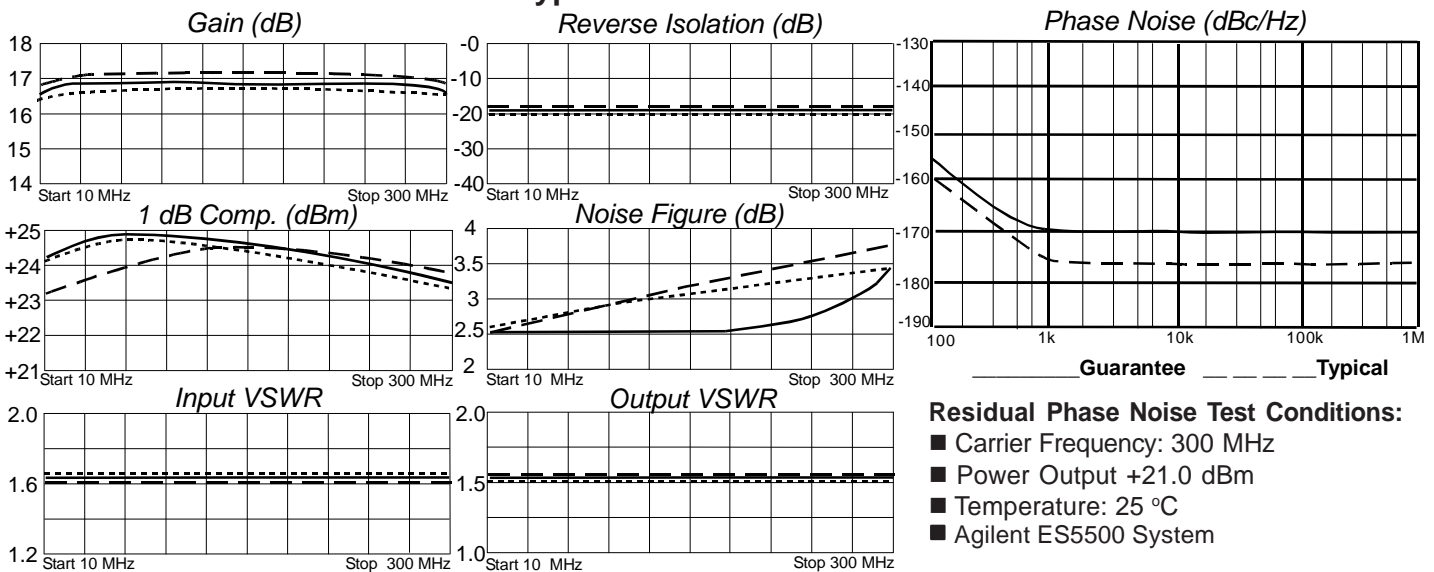
Ambient Operating Temperature -55°C to +100 °C
 Storage Temperature -62°C to +125 °C
 Case Temperature +125 °C
 DC Voltage +18 Volts
 Continuous RF Input Power +13 dBm
 Short Term RF Input Power 50 mW (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 µsec Max.)

Guaranteed Phase Noise Performance (dBc/Hz) *

Frequency	Typical	Guarantee
100 Hz	-160	-155
1 kHz	-175	-170
10 kHz	-175	-170
100 kHz	-175	-170
1 MHz	-175	-170

*Phase Noise Performance is Measured and Guaranteed at 300 MHz at 25C.

Typical Performance Data



Legend ——— +25 °C - - - +85 °C ····· -55 °C

Residual Phase Noise Test Conditions:

- Carrier Frequency: 300 MHz
- Power Output +21.0 dBm
- Temperature: 25 °C
- Agilent ES5500 System



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