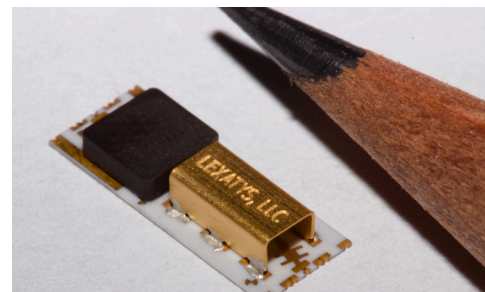


Microwave Amplifier-Filter 50Ω / 30-36 GHz

350-02871-0001

FEATURES

- Broadband Gain >12 dB (30 - 36 GHz)
- Size measures 0.450" x 0.175" x 0.085"
- Integrated Post Amplification Bandpass Filtering
- Output P1dB > +15 dBm
- Solderable, Surface Mount Configuration for PCB Applications



PERFORMANCE OVERVIEW

The 350-02871-0001 filtered microwave amplifier exhibits 13 dB typical gain across the performance band. The miniature module works well as a filtered high-dynamic range IF amplifier for receiver systems as well as a driver amplifier for multiplied LOs.

Post-Amp Filtering

A bandpass filter built onto the 7 mil thick alumina substrate provides attenuation of 45 dBc from 45-54 GHz as well as 55 dBc from 0.1-18 GHz.

High Output Power

A minimum of +15 dBm output power can reach levels of +20 dBm while keeping spurious levels low for mixer drive applications.

Miniature SMT Package

With an integrated filter cover, this module provides clean signal amplification following mounting on a PCB assembly using standard solder reflow techniques.

Specification	Results
Frequency	30-36 GHz
Stopband (0.1-18 GHz)	> 55 dBc
Gain (Max)	15 dB
Output P1dB (Min)	+15 dBm

Specification	Results
Input Return Loss	9.54 dB
Output Return Loss	9.54 dB
Power Supply	5.0 V
Supply Current	90 mA
Noise Figure	< 6 dB

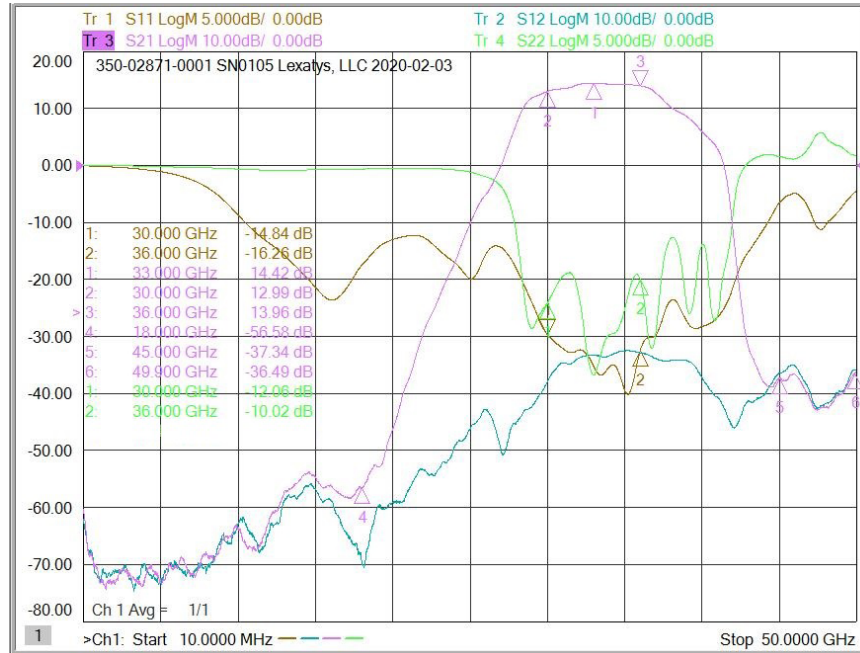
NOTES

1. Performance shown is typical unless otherwise noted.
 2. Measurements shown are made using Lexatys' standard practices and instructions.
 3. This product is covered by a limited warranty. For details see www.lexatys.com/limited-warranty.html
 4. Do not exceed 7.0V on power supply connections
 5. Stopband performance of 50 dB above 45 GHz is typical when the part has a low impedance ground connection to the underlying substrate.
- REV 2020.1

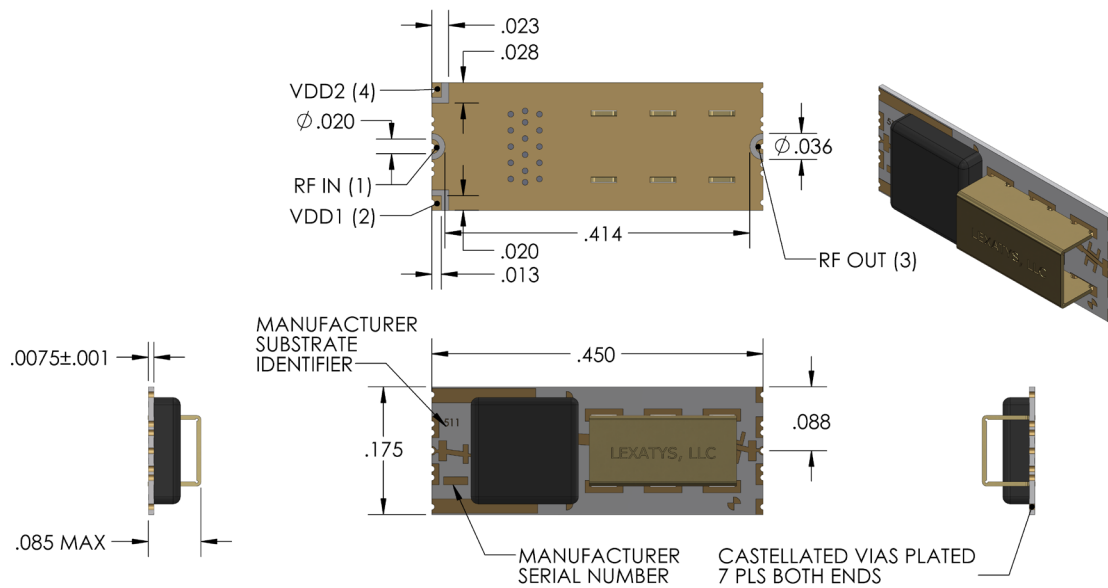


Microwave Amplifier-Filter 50Ω / 30-36 GHz

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TYPICAL LINEAR RESPONSE DATA



OUTLINE DRAWING

REV 2020.1

