

Variable Gain Microwave Amplifier 50Ω / 6-26.5 GHz

350-02847-0001

FEATURES

- Three gain settings (30/23/16 dB @ 26.5 GHz)
- Size measures 3.00" x 1.25" x 0.335"
- Positive Gain Slope Compensation > 10 dB
- Vertical or Horizontal Bias Connector Mating



PERFORMANCE OVERVIEW

The 350-02847-0001 variable gain microwave amplifier is switched rapidly between gain settings using a LVTTTL compatible control signal. The module is suitable for use in broadband systems where cable loss must be overcome.

Slope Compensation

Internal circuits provide gain which increases with higher frequencies to overcome system cable losses while exhibiting less than 6 dB noise figure.

Variable Gain

Multi-Stage amplifier compensation maintains linearity and noise figure while allowing for gain adjustment across the full RF bandwidth.

Low Profile Package

Silver plated aluminum housings provide mechanical rigidity and low profile mounting in a slim 0.335" height. Field replaceable 2.92 mm

RF Passband	Results
Frequency	6-26.5 GHz
Useful Frequency	2-30 GHz
Gain Range	20 dB
Input Return Loss	9.54 dB
Output P1dB	6 dBm
Noise Figure	6 dB

Gain Mode	Gain @ 26 GHz
Low (01)	16 dB
Mid (10)	23 dB
High (11)	30 dB
OFF (00)	-35 dB
Switching Speed	< 3 usec

NOTES

1. Performance shown is typical unless otherwise noted. Color shown may not represent final product appearance.
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. Adequate heatsinking is required for operation.

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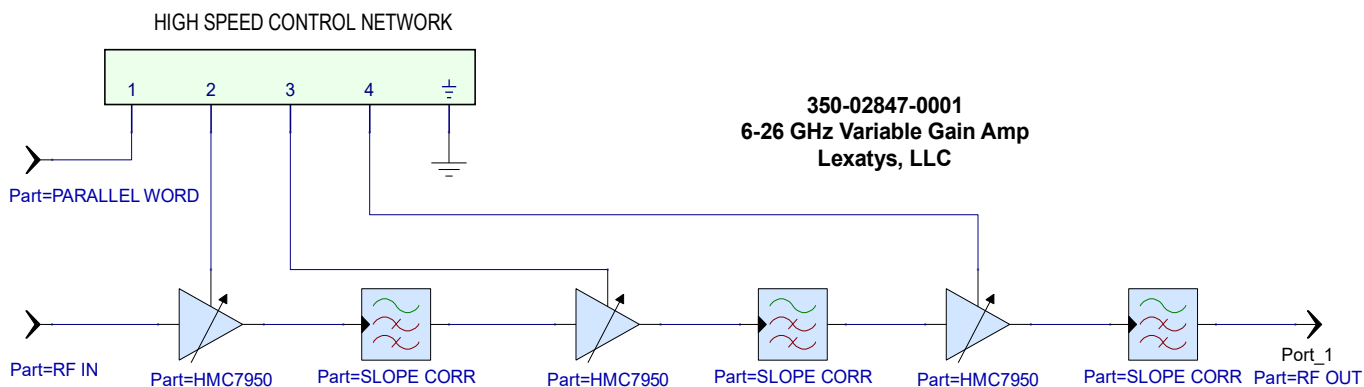


MODULAR : SLOPE CORRECTED, VARIABLE GAIN

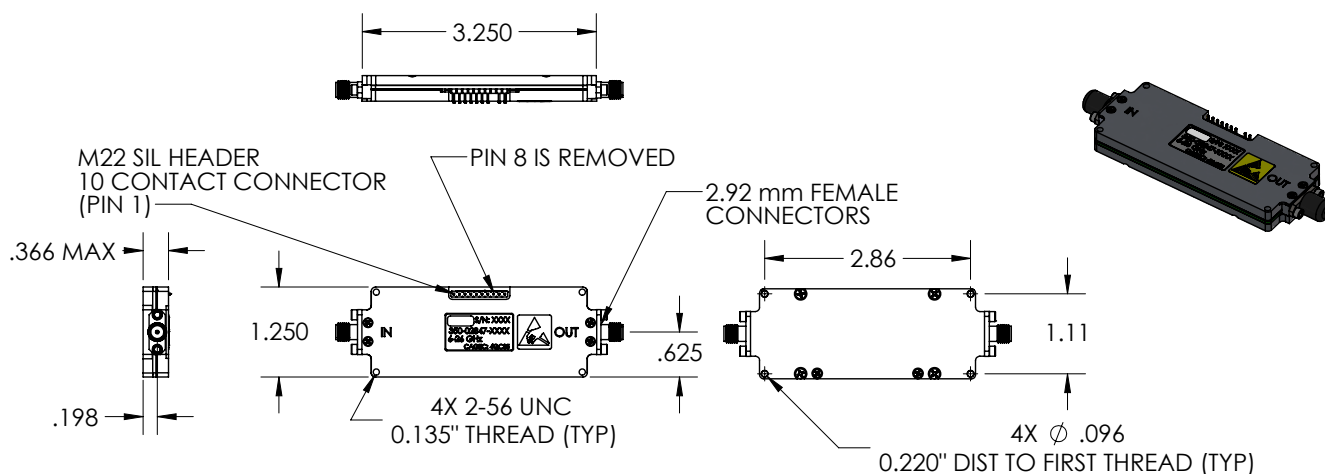
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BLOCK DIAGRAM



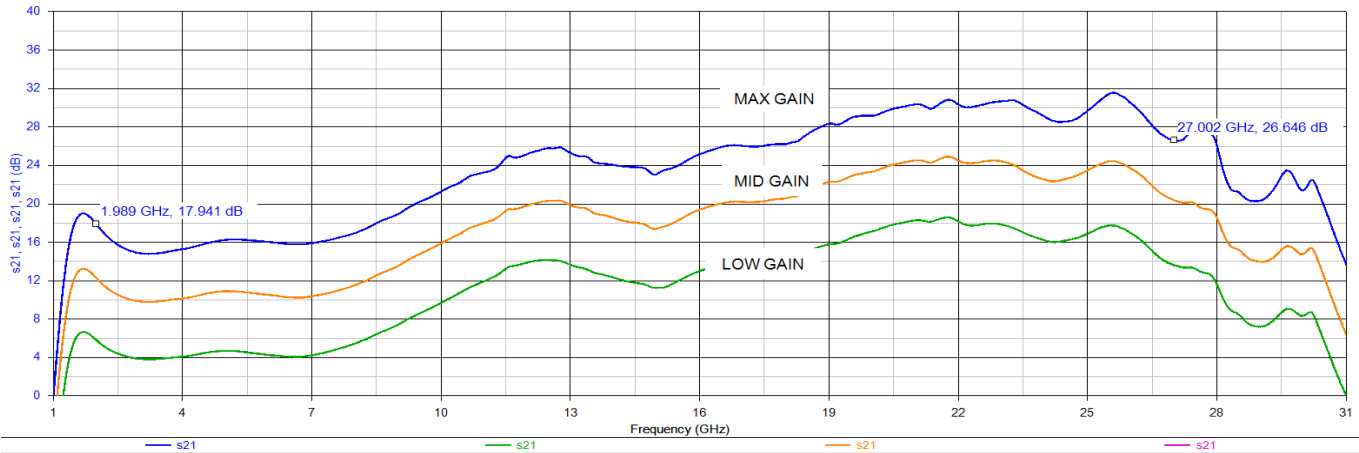
OUTLINE DRAWING

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350-02847-0001 S/N 0112 PERFORMANCE DATA

PIN NO.	DESCRIPTION	LEVEL
1	+7V	250 mA
2	+7V	
3	-6.5V	50 mA
4	N/C	
5	N/C	
6	MSB	LVTTTL
7	LSB	LVTTTL
8	PLUG (N/C)	
9	GND	
10	GND	

Recommended Mating Cable:
Harwin M22-3011000

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