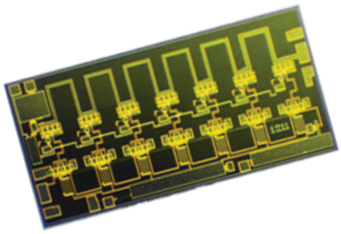
1 Watt, Driver Amplifier
DC to 20 GHz

ECLIPSEmdi microwave devices, inc

EMD1211-D

Typical Applications
- General Purpose Applications
- Commercial and Industrial Applications
- Production Test
- Test Instruments

Features
- 10 dB Gain @ 10 GHz
- +30 dBm Psat Output Power @ 10 GHz
- +12V @ 300 mA Typical Supply Voltage



Product Description
Eclipse Microwave Products EMD1211-D is a GaAs MMIC general purpose driver amplifier in die form. This amplifier is ideal for applications that requires a typical output of +30.5 dBm @ 10 GHz while requiring only 300mA from a + 12 Volt supply. Gain flatness of this device is typically 2.0 dB from DC to 20 GHz. The EMD1211-D is available in die form or in a small connectorized module, ideal for commercial and industrial applications.

ELECTRICAL SPECIFICATION @ +25 °C, Vdd=8-12V, Ids=290mA

SPECIFICATION

Parameters	Freq. (GHz)	MIN	TYPICAL	MAX	UNITS
Gain	2.0 8.0 14.0 20.0	12.5 12.0 12.5 11.5	13.2 13.0 13.5 12.5		dB dB dB dB
Gain Flatness	DC to 10 GHz 10.0 to 20.0 GHz		±0.80 ±0.50	±1.0 ±0.8	dB dB
Gain Variation Over Temperature				0.005	dB/°C
Noise Figure			6.5		dB
Input Return Loss		10	14		dB
Output Return Loss		12	18		dB
1dB Compression Point	2.0-6.0 6.0-8.0 8.0-14.0 14.0-20.0	27.0 27.0 26.5 24.0	28.0 28.0 27.5 26.0		dBm dBm dBm dBm
Saturated Output Power	2.0-6.0 6.0-8.0 8.0-14.0 14.0-20.0	30.0 30.0 26.5 26.0	31.0 30.5 28.5 28.0		dBm dBm dBm dBm
3rd Order Intercept Point	2.0 8.0 14.0 20.0		38.0 38.0 34.0 32.0		dBm dBm dBm dBm

2095-60 Ringwood Ave. San Jose, CA 95131
408.526-1100 | 408.526-1105
sales@eclipsemdi.com | www.eclipsemdi.com

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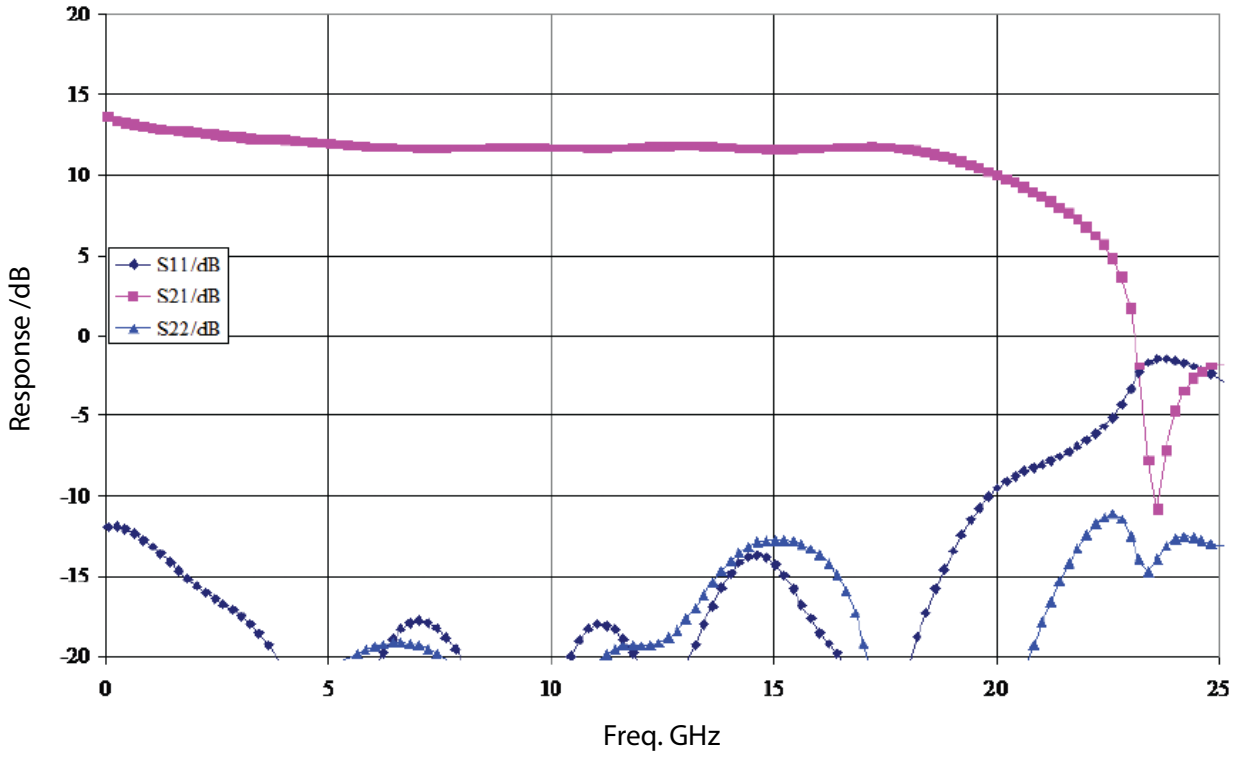
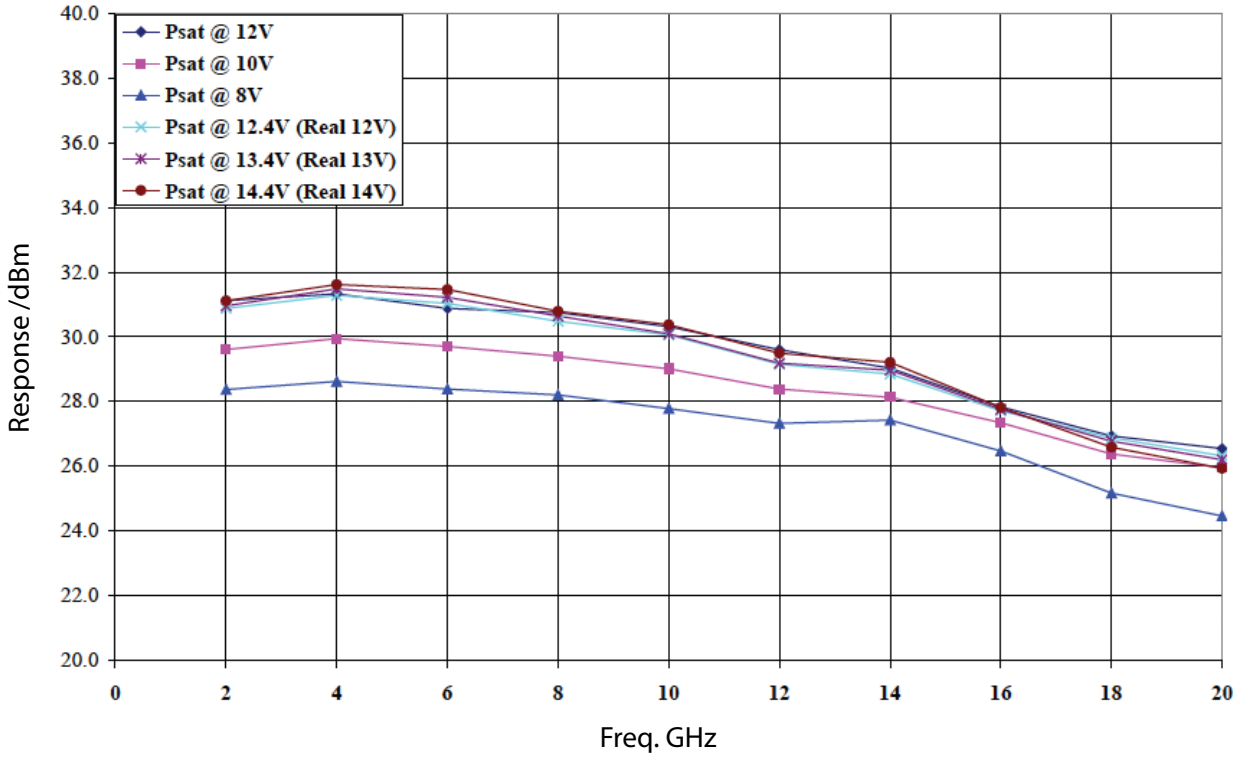
DC-20 GHz, Power Amplifier Device, S-Parameter



Power Data for 1211 Distributed Amplifier at over Vdd



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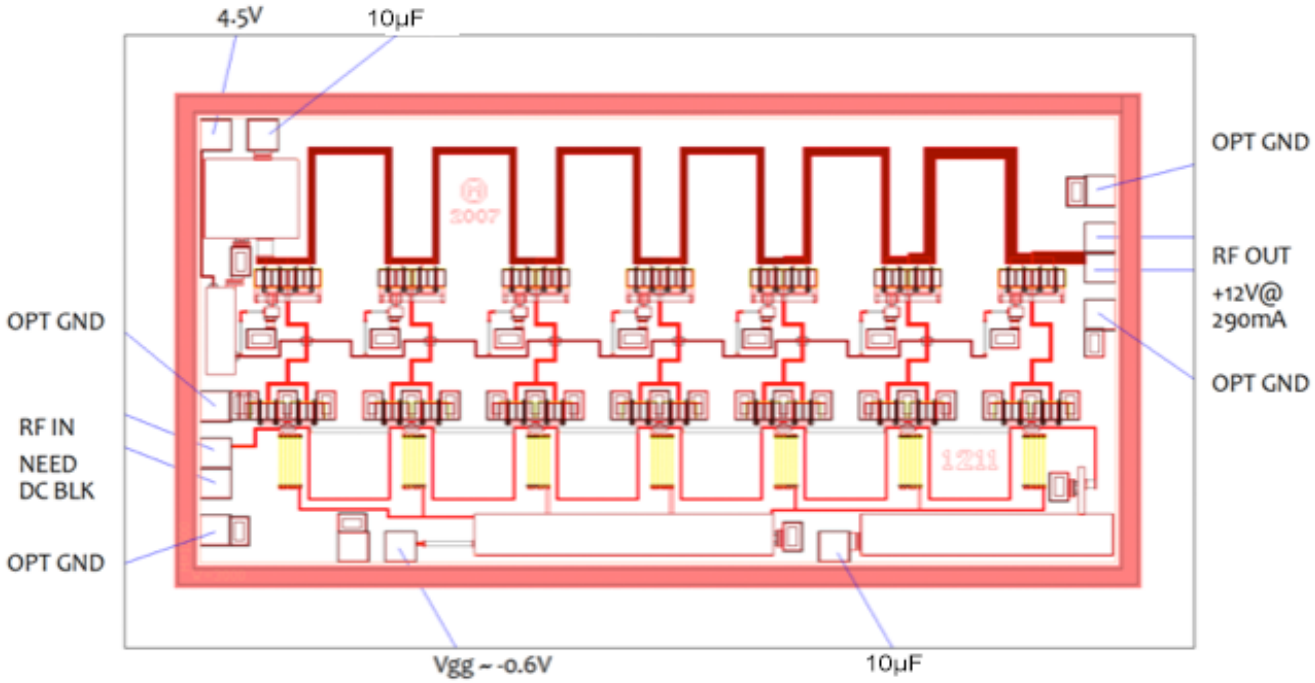
Absolute Maximum Ratings

RF Input Power:	+27dBm
Drain Voltage (Vdd):	+14.0 Vdc
Storage Temp:	-55 to +150 °C
Operating Temp:	-40 to +85 °C

Device Outline



Die Size: .118[3.0]X.060[1.5]- inch[mm]

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