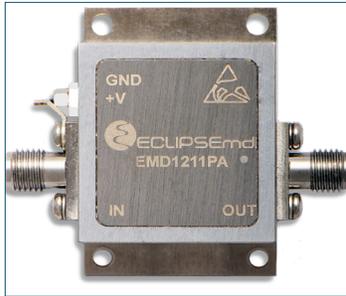


# EMD1211PA-020 Driver Amplifier Module

1 Watt Power Amplifier, 2-20 GHz



## Technical Characteristics

### Product Features

- 9.0 dB Gain @ 20 GHz
- +28.0 dBm Output Power @ 8 GHz
- +12V @ 300 mA Typical Supply Voltage
- Low Cost Connectorized Module

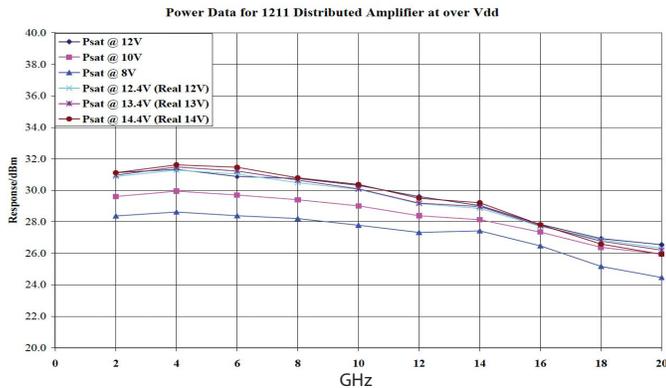
### Product Description

EclipseMDI Products EMD1211PA-020 is an GaAs MMIC amplifier module operating from DC to 20 GHz. This amplifier module is ideal for applications that requires a typical output of +30 dBm @ 10 GHz, while requiring only 300mA from a + 12 volt supply. Gain flatness of this device is typically  $\leq 0.8$  dB from DC to 20 GHz. The EMD1211PA-020 comes in a small connectorized module ideal for commercial and industrial applications.

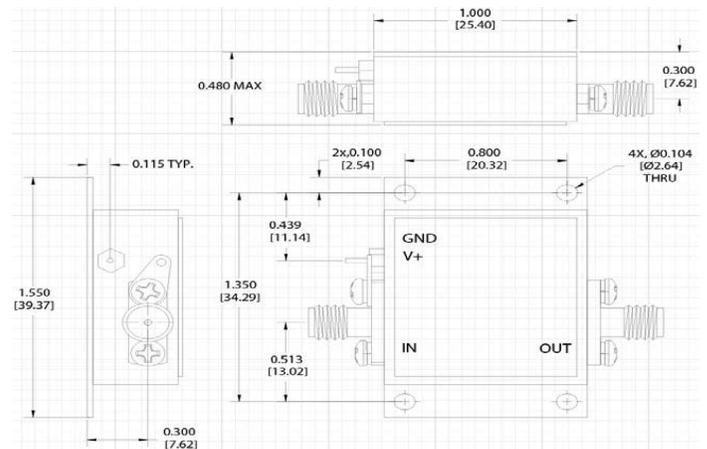
## Electrical Specifications @ +25°C, Vdd=12V, Ids=300mA

Parameters	Freq. (GHz)	Min.	Typical	Max.	Units
Gain	2.0		11.0		dB
	8.0		10.5		dB
	14.0		10.5		dB
	20.0		9.0		dB
Gain Flatness	DC to 20.0 GHz		$\pm 0.5$	$\pm 1.0$	dB
Gain Variation Over Temperature				0.005	dB/°C
Noise Figure			6.5		dB
Input Return Loss			14.0		dB
Output Return Loss			18.0		dB
1dB Compression Point	2.0		30.0		dBm
	8.0		28.5		dBm
	14.0		28.5		dBm
	20.0		25.0		dBm
Saturated Output Power	2.0		31.0		dBm
	8.0		29.5		dBm
	14.0		28.5		dBm
	20.0		26.0		dBm
3rd Order Intercept Point	2.0		38.0		dBm
	8.0		38.0		dBm
	14.0		34.0		dBm
	20.0		32.0		dBm

### Psat data



### Mechanical Drawing



### About EclipseMDI

ECLIPSE Microdevices is located in San Jose, California. ECLIPSE has been developing high performance analog semiconductors for use in wireless radio frequency (RF), microwave, and millimeter wave for commercial and industrial applications. ECLIPSE has formed a strategic alliances - with foundries that features leading state-of-the-art process technologies and with manufacturing facilities for high-volume production of innovative RFIC's.