

EMD1211PA-618 Driver Amplifier Module

1 Watt Power Amplifier, 6-18 GHz



Technical Characteristics

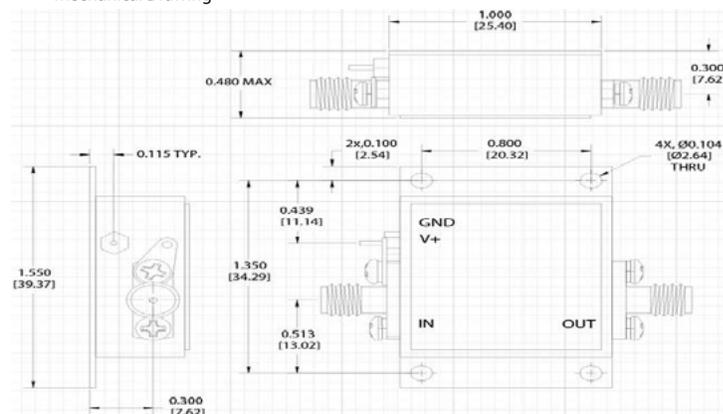
| Product Features |
|--------------------------------------|
| 12.4 dB Gain @ 18 GHz |
| +30.0 dBm Psat Output Power @ 6 GHz |
| +26 dBm Output Power @ 18 GHz |
| +12V @ 300 mA Typical Supply Voltage |
| Low Cost Connectorized Module |

| Product Description |
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| EclipseMDI Products EMD1211PA-618 is an GaAs MMIC amplifier module operating from 6.0 to 18 GHz. This amplifier module is ideal for applications that requires a saturated output of +27 dBm @ 18 GHz, while requiring only 300mA from a + 8 to +14 volt supply. Gain flatness of this device is typically ≤ 0.5 dB from 6.0 to 18 GHz. The EMD1211PA-618 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 | 6.0 | | 11.0 | | dB |
| | 10.0 | | 10.5 | | dB |
| | 14.0 | | 10.5 | | dB |
| | 18.0 | | 12.0 | | dB |
| Gain Flatness | 6.0 to 18.0 GHz | | ± 0.20 | ± 0.5 | dB |
| Gain Variation Over Temperature | | | | 0.005 | dB/°C |
| Noise Figure | | | 6.5 | | dB |
| Input Return Loss | | | 18.0 | | dB |
| Output Return Loss | | | 15.0 | | dB |
| 1dB Compression Point | 6.0 | | 29.5 | | dBm |
| | 10.0 | | 28.0 | | dBm |
| | 14.0 | | 27.0 | | dBm |
| | 18.0 | | 25.4 | | dBm |
| Saturated Output Power | 6.0 | | 30.0 | | dBm |
| | 10.0 | | 28.5 | | dBm |
| | 14.0 | | 28.0 | | dBm |
| | 18.0 | | 26.0 | | dBm |
| 3rd Order Intercept Point | 6.0 | | 38.0 | | dBm |
| | 10.0 | | 38.0 | | dBm |
| | 14.0 | | 34.0 | | dBm |
| | 18.0 | | 33.0 | | dBm |

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.