M1231 Microwave Power Module

L3’s M1231 is a broadband MPM suitable for use in demanding military environments. The MPM is comprised of a high efficiency mini-TWT, SSA and equalizer, power supply, and integrated forced air cooling.

**KEY FEATURES**
- 50 W to 100 W output power
- 6.0 GHz to 18.0 GHz
- Integrated forced air cooling

**PERFORMANCE**
- Frequency: 6.0 GHz to 18.0 GHz
- RF Output Power: 50 W to 100 W min
- RF Input Power: 0 dBm nominal
- Small Signal Gain: 50 dB min
- Spurious: -50 dBc max

**INTERFACE**
- Prime Power, operating: 28 VDC ± 3 VDC
- 400 W max
- EMI: CE102, CE106, RE102
- Per MIL-STD-461E
- Controls: Standby/operate, battle override
- Digital Indicators: Standby indicator, Operate indicator, Fault indicator

**ENVIRONMENT**
- Ambient Temperature: -40 °C to +71 °C
- Cooling: Integrated forced air cooling
- Altitude: 40,000 ft.
- Humidity: Up to 95%
- Vibration: 9.5 grms
- 0.06 g/Hz from 10 Hz to 1,000 Hz
- -6 dB/octave 1,000 Hz to 2,000 Hz

**MECHANICAL**
- Dimensions: See outline
- Weight: 6.0 lb. max
- RF Input Connector: SMA
- RF Output Connector: TNC
- Power/Control Connector: MS 3122E14-12P
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