

Microwave Power Module

M1201

The M1201 represents the most advanced technology available in low-noise, compact, high-efficiency, wideband microwave power amplifiers for airborne, shipboard, and ground military applications. This MPM contains a TWT, an SSA and a power supply within a single conduction-cooled package.



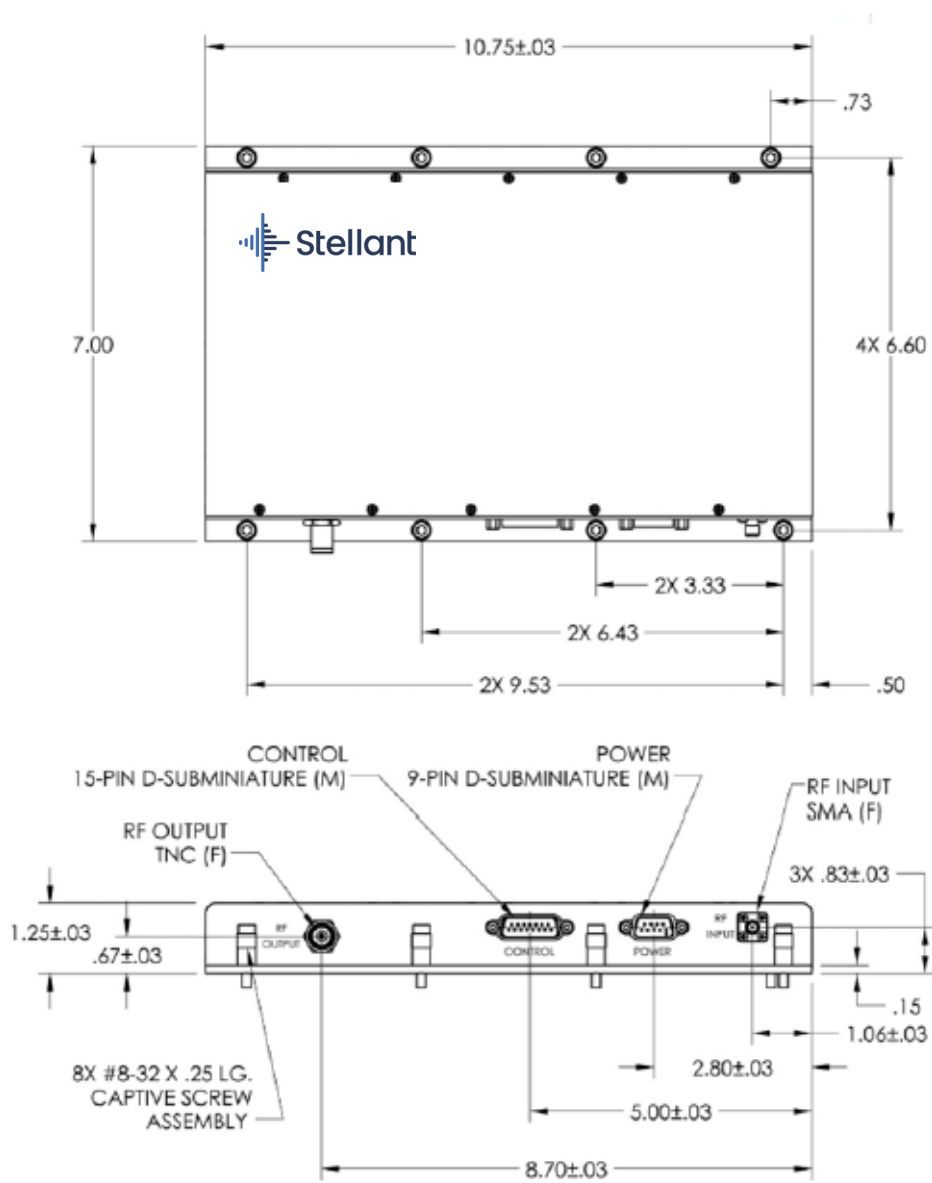
SPECIFICATIONS

Performance		Interface	
Frequency	2.0 - 6.0 GHz	Prime Power, operating	28 VDC, 425 W max
RF Output Power		Prime Power, standby	50 W max
2.0 - 2.5 GHz	70 W - 80 W min	Controls	High-voltage on/off
2.5 - 6.0 GHz	80 W min		RF on/off
RF Input Power	0 ± 1 dBm		Battle override
Small Signal Gain	50 dB min	Digital Indicators	Warm-up complete
PRF	50 kHz max		Fault
Harmonics, 2 GHz	0 dBc max		High-voltage
Harmonics, 3 GHz	-7 dBc max	Analog Monitor	Helix Current
Harmonics, 4 GHz	-14 dBc max	Environment	
AM/PM Conversion	6 °/dB max	Temperature	-54°C to +85°C
Spurious	-40 dBc max	Cooling	Conduction
Noise Power Density	-40 dBm/MHz max	Altitude	Up to 50,000 ft
Mechanical		Humidity	Up to 100% with condensation
Dimensions	See Outline Drawing	Shock	20 g, 11 ms
Weight	6 lbs. max	Acceleration	10 g
RF Input Connector	SMA Female	Vibration	+3 dB/octave from 20 - 80 Hz
RF Output Connector	TNC Female		0.04 g ² /Hz from 80 - 350 Hz
Control Input	15 pin D-sub male		-3 dB/octave from 350 - 2,000 Hz
Power Input	9 pin D-sub male		

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*Dimensions in inches unless otherwise indicated.



Detailed outline drawings are available on request. Specifications and features are subject to change without notice.




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