

Microwave Power Module

M2844

The M2844 millimeter wave MPM delivers up to 200W CW from 26-40 GHz using a high-efficiency TWT and compact nanoMPM® EPC. Its small footprint enables direct placement at the radiating element to maximize effective radiated power.

Ideal for standalone or integrated high-power RF transmitters in communications and EW systems.



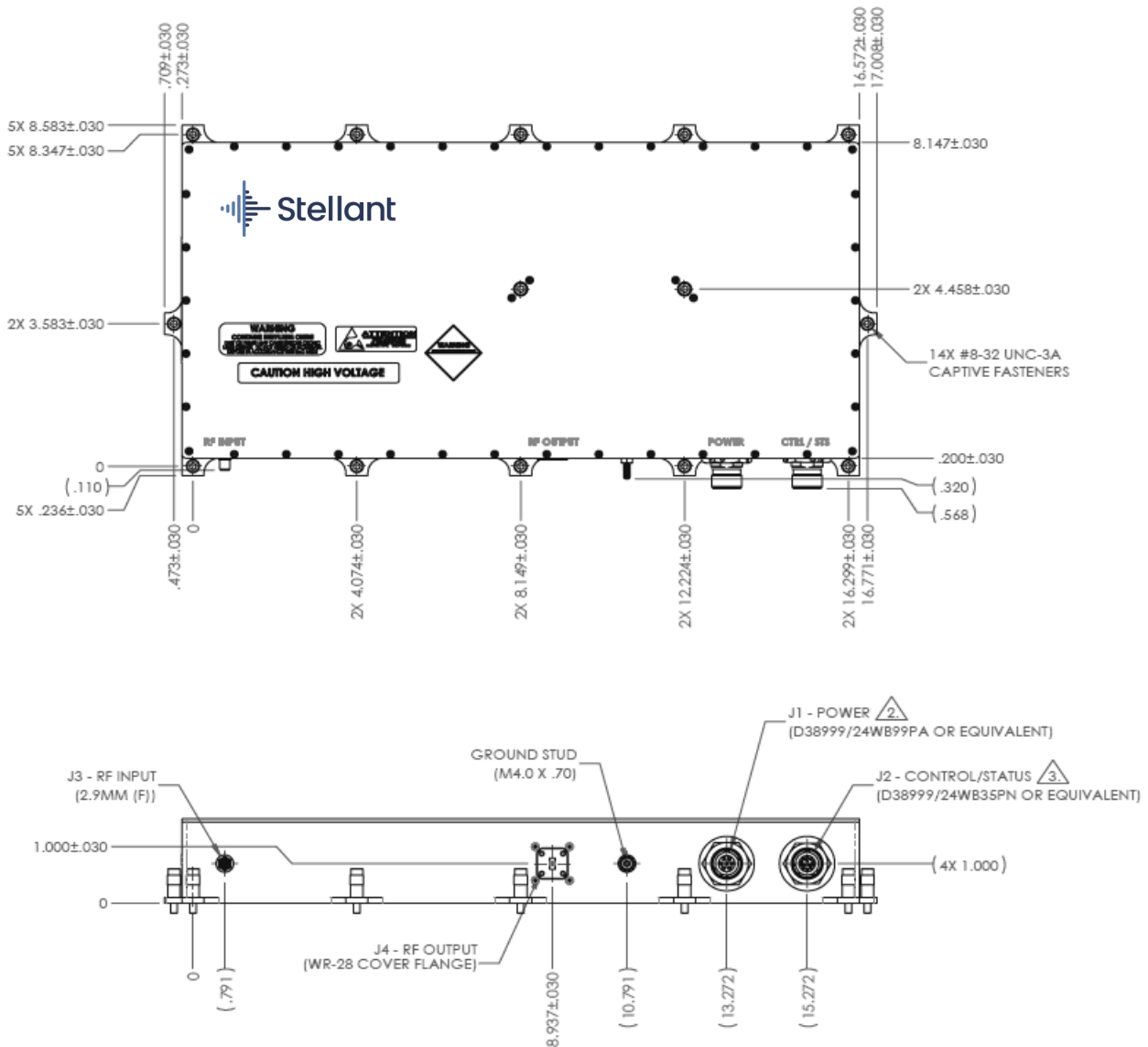
SPECIFICATIONS

Performance		Environmental	
Frequency Range	26 - 40 GHz	Baseplate Temperature	-40° to +85°C
RF Input Power	+3 dBm max	Temperature (non-operating)	-40° to +85°C
Rated Output Power		Humidity	85% RH with condensation
<i>Guaranteed</i>	200 W minimum, 32-37 GHz	Altitude	10,000 ft
	180 W minimum, 37-38 GHz	Acceleration	8 g
<i>Typical</i>	125 W minimum, 26-40 GHz	Vibration	+3 dB/octave from 20 Hz - 80 Hz
Duty	CW		0.04 g ² /Hz from 80 Hz - 350 Hz
Noise Power Density	-13 dBm/MHz maximum		-3 dB/octave from 350 Hz - 2000 Hz
Small Signal Gain	56 dB minimum		6 g rms
Spurious	-45 dBc max > 100 kHz	Shock	20 g, 11 mS, sawtooth
Electrical		Mechanical	
Operating Voltage	270 ± 10 VDC	Dimensions	See Outline Drawing
Prime Power	750 watts maximum	Cooling	Conduction to base plate
Control Connector	Mil circular MIL	Weight	15 lbs max
Heater Turn-On Delay	180 seconds maximum		
Controls	HV On/Off		
	RF On/Off		
Indicators	Warm-up, High Voltage, MPM Summary Fault		

Microwave Power Module

M2844

*Dimensions in inches unless otherwise indicated.



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

Headquarters

3100 Lomita Blvd
Torrance, CA 90505
T: 310-517-6000

Williamsport, PA

1035 Westminster Dr.
Williamsport, PA 17701
T: 570-326-3561



StellantSystems.com

Sales-PST@stellantsystems.com

info@stellantsystems.com