

The **SM1025-37MQ2** is a GaAs FET amplifier designed for various military and commercial applications. This small size, high efficiency module is well suited for applications such as COFDM video and C2 links in UAVs and in portable, battery-powered transmitters.



### Features:

- Single DC Supply of +12V
- Over/Reverse Voltage Protection
- Thermal Protection with Auto Reset
- TTL on/off

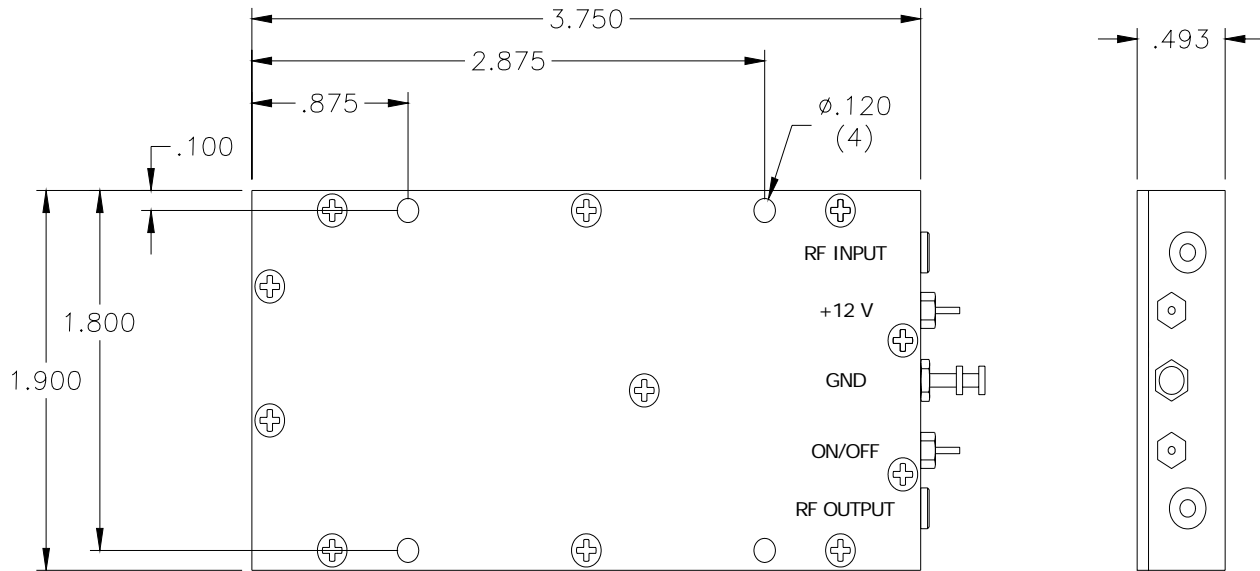
Parameter	Specification	
Frequency Range	1000 - 2500 MHz	
Pout (P1dB, dBm)	+ 36.5 min.	+ 37.0 typ.
Linear Gain	10 dB $\pm$ 1dB	
OIP3	50 dBm typ.	
Gain Flatness over Full Band	$\pm$ .75 dB	
Input/Output Return Loss	-10/-10	
DC Supply	+ 12 Volts @ 1.6 A Operating @ 33 dBm COFDM	
RF Connectors	MMCX / SMA	
Operating Temperature	0°C to 85°C (Base plate)	
Operating Humidity	95% Non-condensing	
Mechanical Dimensions	3.75 x 1.9 x .5 inches	
Weight	3.3 ounces	

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**DIMENSIONS IN INCHES**  
**MMCX CONNECTORS SHOWN**



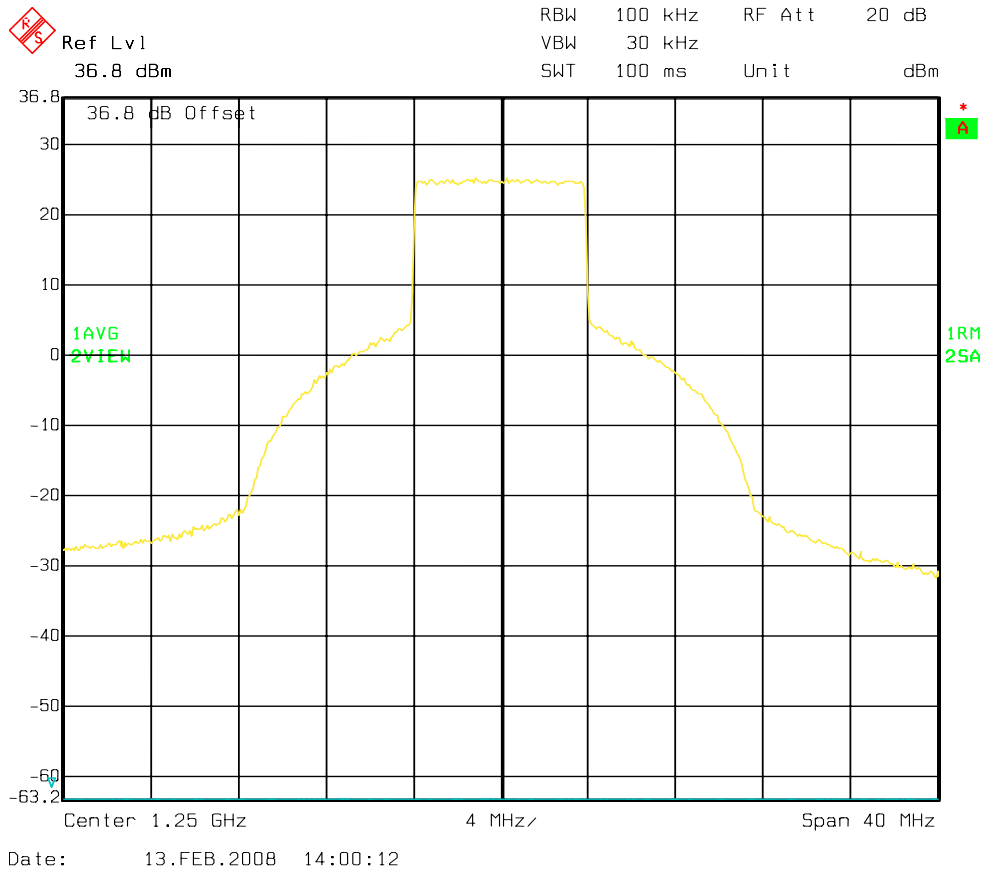
Pin	Description	Values
RF Input	Input Connector (MMCX)	+26 dBm for drive to P1dB
RF Output	Output Connector (MMCX)	+ 37 dBm @ P1dB
GND	Ground Turret	---
+12VDC	DC Input Voltage	+ 12 Volts @ 1.6 Amps

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**64QAM COFDM OUTPUT – 33 dBm**

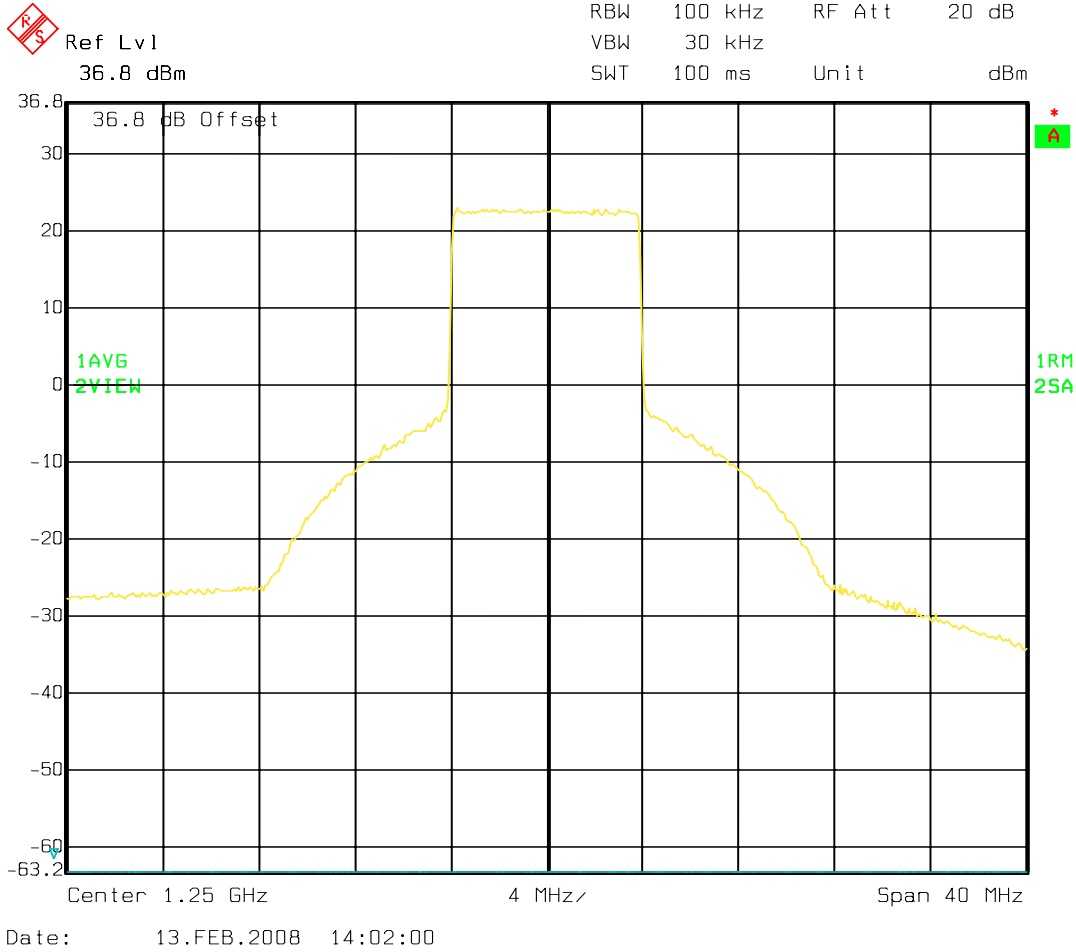


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**64QAM COFDM OUTPUT – 31.0 dBm**



*Specifications subject to change without notice.*

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