

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.

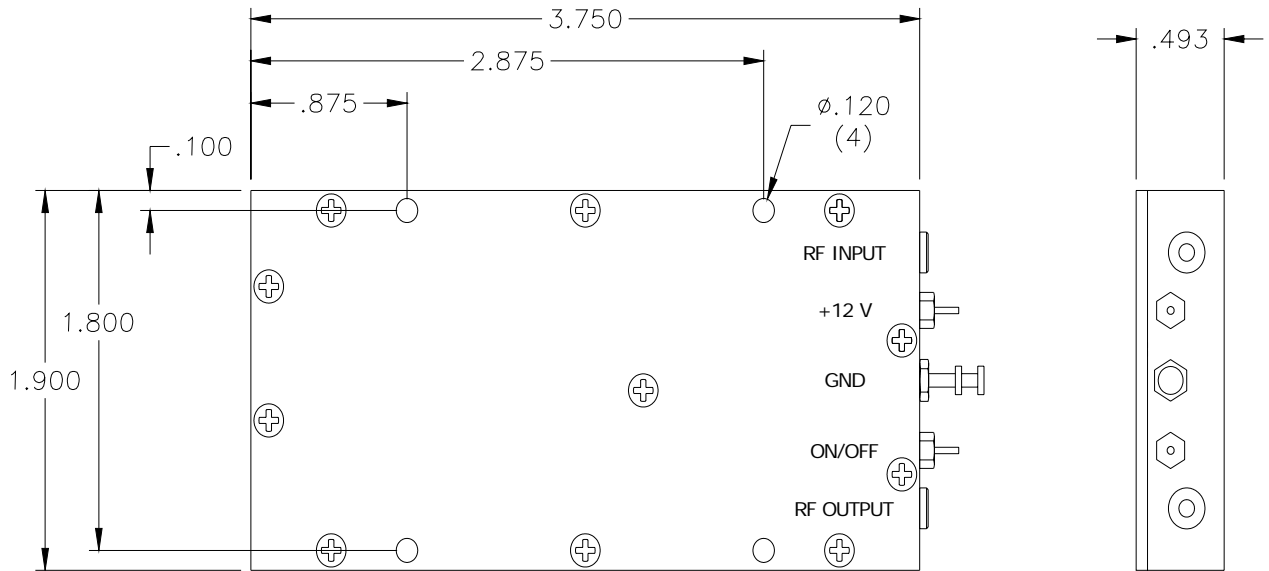


Features:

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

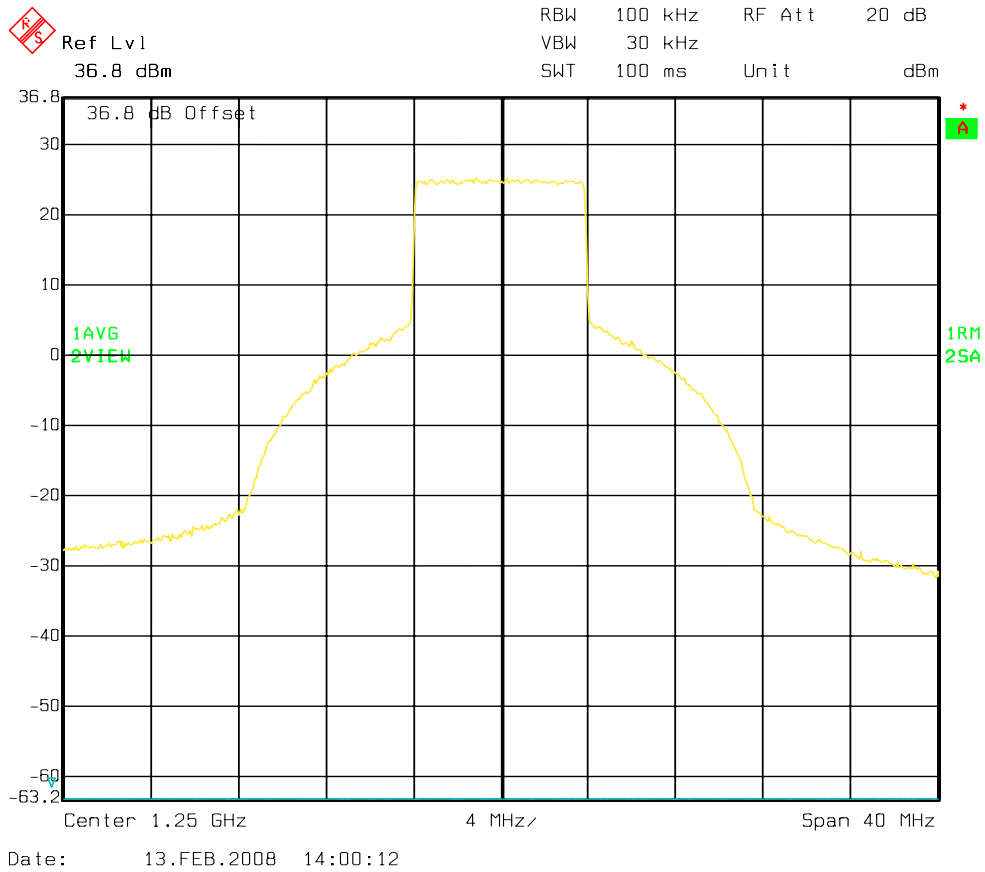
| Parameter | Specification | |
|------------------------------|--|-------------|
| Frequency Range | 1000 - 2500 MHz | |
| Pout (P1dB, dBm) | + 36.5 min. | + 37.0 typ. |
| Linear Gain | 10 dB \pm 1dB | |
| OIP3 | 50 dBm typ. | |
| Gain Flatness over Full Band | \pm .75 dB | |
| Input/Output Return Loss | -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 | |

DIMENSIONS IN INCHES
MMCX CONNECTORS SHOWN

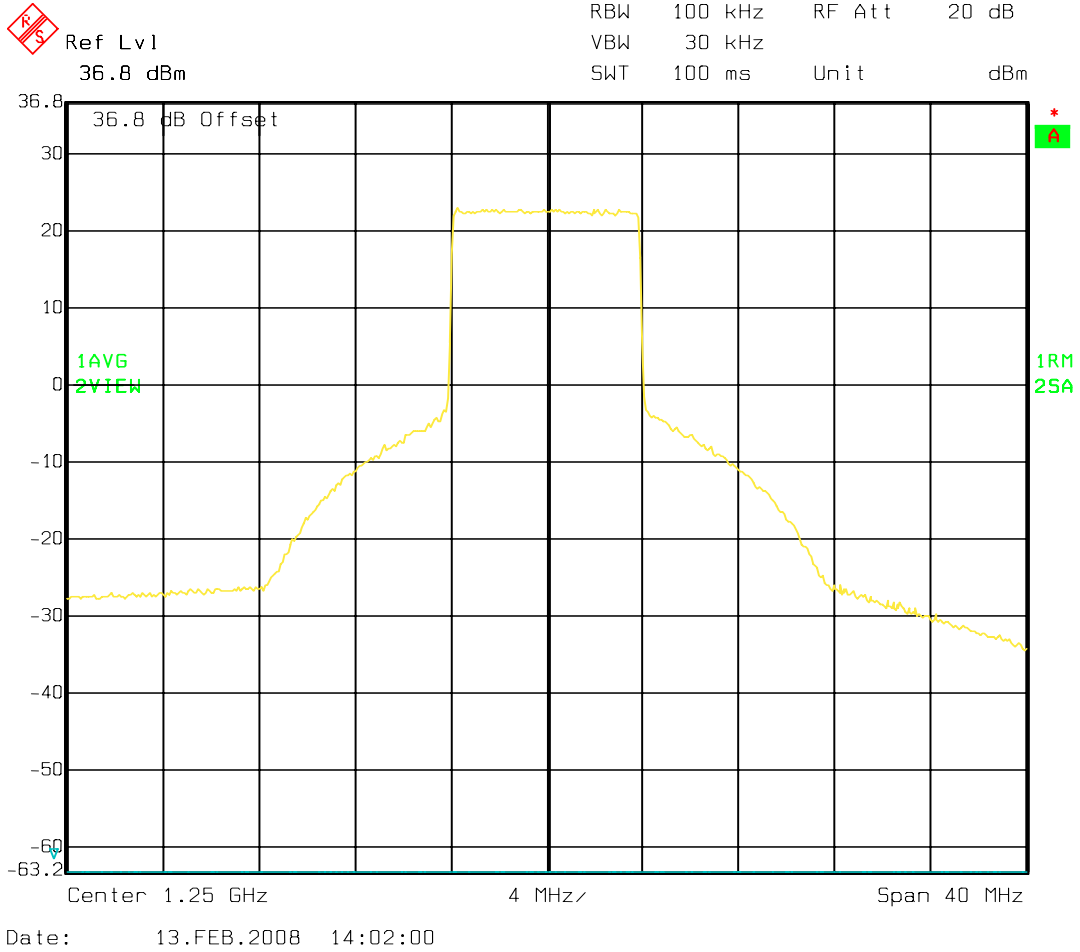


| Pin | Description | Values |
|-----------|-------------------------|---------------------------|
| RF Input | Input Connector (MMCX) | +26 dBm for drive to P1dB |
| RF Output | Output Connector (MMCX) | + 37 dBm @ P1dB |
| GND | Ground Turret | --- |
| +12VDC | DC Input Voltage | + 12 Volts @ 1.6 Amps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

64QAM COFDM OUTPUT – 33 dBm



64QAM COFDM OUTPUT – 31.0 dBm



Specifications subject to change without notice.