

The **SM4450-36MQ2** 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.

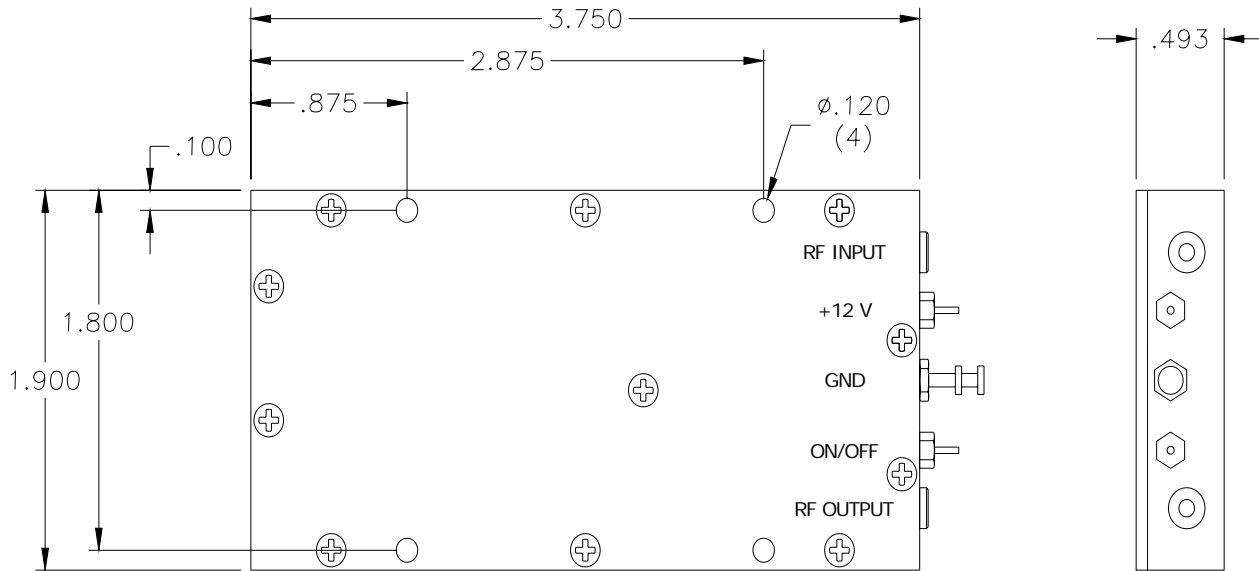


Features:

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

Parameter	Min	Typ	Max	Unit
Frequency Range	4400	-	5000	MHz
Power Output (P1dB)	+36.0	-	-	dBm
Linear Power Output	-	+30.0	-	dBm
ACP / OIP3 / Linearity	-	-30	-	dBc
Input Return Loss / VSWR	-	-9.5 / 2.0:1	-	dB / ul
Nominal Linear Gain	+10.0	+11.0	+12.0	dB
Spurious Signals	-	-	-50	dBc
Gain Flatness over Full Band	-	±.5	±1.0	dB
Gain Change over Temperature	-	±1.5	-	dB
Operating Voltage	11.5	12.0	12.5	VDC
Current Consumption @ P1dB	-	2.0	2.2	A
Maximum RF Input Power	+23.0			dBm

DIMENSIONS IN INCHES
OPTIONAL MMCX CONNECTORS SHOWN



Pin	Description	Values
RF Input	Input Connector (SMA)	+ 26 dBm for drive to P1dB
RF Output	Output Connector (SMA)	+ 36 dBm @ P1dB
GND	Ground Turret	---
+12VDC	DC Input Voltage	+ 12 VDC

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64QAM COFDM OUTPUT – 31 dBm

