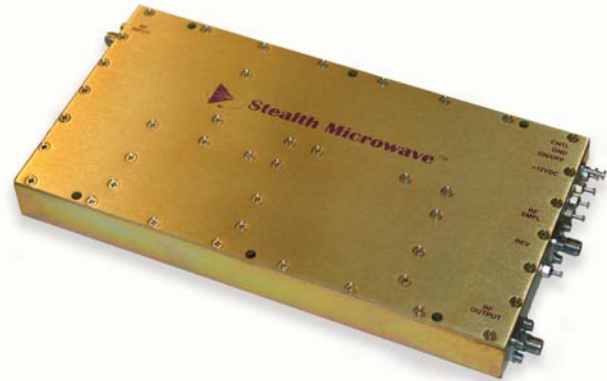


Stealth Microwave's **SM2025-46L** is a solid state GaAs FET amplifier designed for the Digital Video Broadcasting market. Using a proprietary pre-distortion technique, the OIP3 is improved by 7 dB. The P1dB is +46 dBm, the linear gain is 55 dB, and the gain change over temperature is only  $\pm 0.5$  dB. The unit is available in modular form (standard), or as a rack mountable amplifier.



### Features

- Single Power Supply
- Over/Reverse Voltage Protection
- Thermal Protection with Auto Reset
- Temperature Compensation
- Integral Output Isolator

### Options

- Forward/Reverse Power Detection
- Low Pass Filter
- RF Sampling
- Logic On/Off Control
- Integral Heatsink
- High Speed Switching for TDD
- Internal AGC (40 dB)

### Configurations

- Module
- Laboratory Unit
- 19" Rack

Parameter	Specification
Frequency Range	2.0 - 2.5 GHz
Pout (P1dB)	+45.7 dBm (min.) +46.3 dBm (typ.)
Third Order Intercept Point	+ 64 dBm
Linear Gain	52 dB $\pm$ 1 dB
Gain Flatness over Full Band	$\pm .75$ dB
Gain Change over Temperature	$\pm .5$ dB
Input/Output Return Loss	-14/-15 dB (Output Isolator)
DC Input Voltage	+ 12 Volts
DC Input Current	15 Amps (Varies per application)
Mechanical Dimensions	7.5 x 4.0 x .79 inches
RF Connectors	SMA Female
Operating Temperature	0°C to +55°C
Operating Humidity	95% Non-condensing
Operating Altitude	Up to 10,000 feet above Sea Level

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