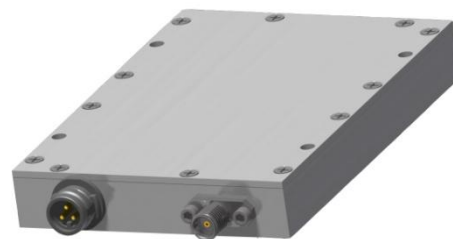


DESCRIPTION

This class AB GaN module is designed for both military and commercial applications. It is capable of supporting any signal type and modulation format, including but not limited to 3-4G telecom, WLAN, OFDM, DVB, and CW/AM/FM. The latest device technologies and design methods are employed to offer high power density, efficiency, and linearity in a small, lightweight package.

**FEATURES**

- Over / Under / Reverse Voltage Protection
- High Speed On/Off Control
- Temperature Output
- Optional Heatsink

APPLICATIONS

- Military / Commercial Data links
- Telecommunications
- BTS / Repeaters / DAS
- Test and Measurement
- General Purpose Lab Use

RF / ELECTRICAL

PARAMETER	MIN	TYP	MAX	UNIT
Operating Frequency	20		1000	MHz
P1dB Power Output		41.0		dBm
PSat Power Output	41.0	43.0		dBm
Gain	46.0	47.0		dB
Gain Flatness		1.0	1.5	dB
OIP3		48		dBm
OIP3 Measurement Conditions	2 Tone @ 30 dBm / Tone, 10 MHz Spacing			--
Input Return Loss	12	14		dB
Operating Voltage	27		30	VDC
Current Draw		2.4	2.9	A
Quiescent Current Draw				A
Switching Time			1	uS

MECHANICAL

PARAMETER	VALUE	UNIT
Dimensions (L x W x H)	3.5 x 2.5 x 0.85	in.
RF Connectors (Input / Output)	SMA-F / SMA-F	--
DC / Control Connector	Circular Locking	--
Cooling	Baseplate Conduction - Optional Heatsink Available	--
Mounting	4-40 Thru Holes	--

PARAMETER	MIN	MAX	UNIT
Operating Temp. (Housing Temp.)	-40	+85	°C
Storage Temp Range	-60	+100	°C
Humidity Range	0-100		%
Altitude	0-30,000		ft.
Shock / Vibration	MIL-STD-810 and equivalents		--
Max RF Input	-1.0		dBm
Load VSWR @ P1dB	Open / Short Output Protection		--
PA Baseplate Shutoff Temperature	85		°C

Technical drawing of a rectangular plate with dimensions and hole locations. The drawing includes three views: a front view (top), a side view (bottom), and a detail view (left).

Front View (Top): Shows a rectangular plate with overall dimensions of 4.250 (width) by 2.500 (height). The top edge has a series of holes with diameters of .125 (4x). The bottom edge has a series of holes with diameters of .125 (4x). The left edge has a series of holes with diameters of .125 (4x). The right edge has a series of holes with diameters of .125 (4x). The center of the plate is marked with a crosshair.

Side View (Bottom): Shows the side profile of the plate with a thickness of .000. The top edge has a series of holes with diameters of .125 (4x). The bottom edge has a series of holes with diameters of .125 (4x). The left edge has a series of holes with diameters of .125 (4x). The right edge has a series of holes with diameters of .125 (4x).

Detail View (Left): Shows a close-up of the top-left corner of the plate. It features a circular hole with a diameter of .590. The hole is located at a distance of .000 from the left edge and .190 from the top edge. The hole is surrounded by a circular feature with a diameter of .270. The hole is located at a distance of .000 from the left edge and .190 from the top edge.

DC / CONTROL PINS

PIN LABEL	NAME	DESCRIPTION
1	+VDC	Supply Voltage - Range Specified in Datasheet
2	+VDC	Supply Voltage - Range Specified in Datasheet
3	TEMP	Temp Monitor: Temp in DegC = $(V_{out} - 0.5V) / 10$
4	I/O	On / Off Control (+5V = On / 0V = Off)
5	GND	Ground