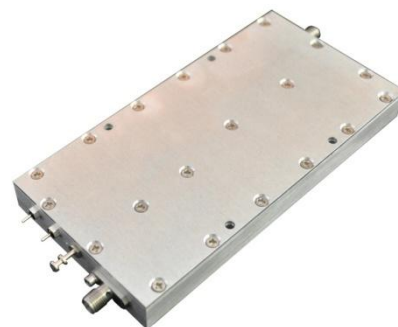


DESCRIPTION

This class A GaAs 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
- 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	500		2800	MHz
P1dB Power Output	37.0	37.8		dBm
PSat Power Output		38.0		dBm
Gain	36.0	37.0		dB
Gain Flatness		2.0	4.5	dB
OIP3		53		dBm
OIP3 Measurement Conditions	2 Tone @ 34 dBm / Tone, 10 MHz Spacing			--
Input Return Loss	-11	-14		dB
Operating Voltage	11		13	VDC
Current Draw		1.8	2.1	A
Quiescent Current Draw		0.1		A
Switching Time		1.0	2.0	uS

MECHANICAL

PARAMETER	VALUE	UNIT
Dimensions (L x W x H)	5 x 2.5 x 0.553	in.
RF Connectors (Input / Output)	SMA-F / SMA-F	--
DC / Control Connector	Feedthru Pins	--
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	4.0		dBm
Load VSWR @ P1dB	Open / Short Output Protection		--
PA Baseplate Shutoff Temperature	85		°C

Technical drawing of a rectangular plate, showing four views: Top, Front, Left Side, and Right Side. The drawing includes dimensions and callouts for specific features.

Top View:

- Overall dimensions: 5.000 (width) x 2.500 (height).
- Central hole: $\varnothing.125(4x)$.
- Corner holes: $\varnothing.125(4x)$.
- Dimensions for corner holes: 1.250 (horizontal distance from left edge), 1.250 (horizontal distance from right edge), 1.250 (vertical distance from top edge), 1.250 (vertical distance from bottom edge).
- Dimensions for central hole: 1.250 (horizontal distance from left edge), 1.250 (horizontal distance from right edge), 1.250 (vertical distance from top edge), 1.250 (vertical distance from bottom edge).
- Dimensions for mounting holes: 0.000 (horizontal distance from left edge), 0.000 (horizontal distance from right edge), 0.000 (vertical distance from top edge), 0.000 (vertical distance from bottom edge).

Front View:

- Overall dimensions: 5.750 (width) x 0.000 (height).

Left Side View:

- Overall dimensions: 0.000 (width) x 1.900 (height).
- Dimensions for mounting holes: 0.000 (horizontal distance from left edge), 0.180 (horizontal distance from center), 0.270 (horizontal distance from right edge).

Right Side View:

- Overall dimensions: 0.000 (width) x 0.600 (height).
- Dimensions for mounting holes: 0.553 (horizontal distance from left edge), 0.000 (horizontal distance from right edge).

DC / CONTROL PINS

PIN LABEL	NAME	DESCRIPTION
+VDC	Supply Voltage	Supply Voltage - Range Specified in Datasheet
I/O	TTL on / off	On / Off Control (+5V = On / 0V = Off)
GND	Ground	--