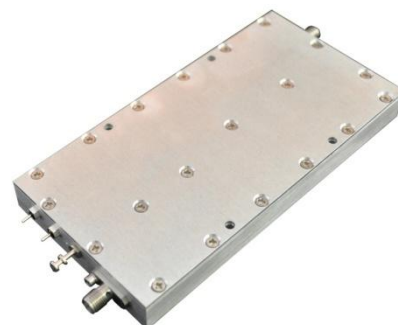


DESCRIPTION

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
- Forward Power Measurement
- Reflected Power Measurement
- 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	7200		8500	MHz
P1dB Power Output	42.0	42.5		dBm
PSat Power Output	45.1	45.4		dBm
Gain	44.0	45.0		dB
Gain Flatness		1.8	2.0	dB
OIP3		--		dBm
OIP3 Measurement Conditions		--		--
Input Return Loss	12	14		dB
Operating Voltage	27		29	VDC
Current Draw		4.1	4.3	A
Quiescent Current Draw		0.6		A
Switching Time			1.0	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	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	3.4		dBm
Load VSWR @ P1dB	Open / Short Output Protection		--
PA Baseplate Shutoff Temperature	85		°C

Technical drawing of a rectangular plate with dimensions and hole patterns. The drawing includes three views: a top view, a front view, and a side view.

Top View Dimensions:

- Overall width: 5.375
- Overall height: 2.500
- Left side hole spacing: .000, .100, 2.400
- Right side hole spacing: 5.000, 5.375
- Top edge hole spacing: .000, 1.250, 3.750
- Bottom edge hole spacing: 2.400, 2.500
- Bottom edge hole diameter: $\varnothing .125(4x)$

Front View Dimensions:

- Overall height: 1.900
- Top edge hole spacing: .000, .590
- Bottom edge hole spacing: .000, .180, .270

Side View Dimensions:

- Overall width: .553
- Overall height: .600

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	REV	Reflected Power Measurement -
6	FWD	Forward Power Measurement -
7	GND	