

## 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  
Temperature Output

High Speed On/Off Control  
Optional Heatsink

Specifications subject to change without notice. Typical performance at 28.0VDC at 25°C in a 50Ω system

RF / ELECTRICAL				
PARAMETER	MIN	TYP	MAX	UNIT
Operating Frequency	20		512	MHz
PSat Power Output	45.0	46.0		dBm
Gain	47.0	49.0	v	dB
Gain Flatness		2.0		dB
Linear Power		0.0		dBm
Input Return Loss	-14	0		dB
Operating Voltage	28.0	28.0	30.0	VDC
Current Draw		4.0	4.0	A
Quiescent Current Draw		3.0		A
Switching Time			1.0	μs

MECHANICAL		
PARAMETER	VALUE	UNIT
Dimensions (L x W x H)	3.5x2.5x0.85	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	--
Weight	6	oz
Weight with Heatsink	16	Oz


**ENVIRONMENTAL / PROTECTIONS**

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	0.0		dBm
Load VSWR @ P1dB	Open / Short Output Protection		--
PA Baseplate Shutoff Temperature	85		°C

**DC / CONTROL PINS**

PIN LABEL	NAME	DESCRIPTION
1	GND	Ground
2	TEMP	Temp Monitor: Temp in DegC = (Vout - 0.5V) / 10
3	Amp Enable	TTL On/Off Low=Enable, High=Disable
4	+VDC	Supply Voltage - Range Specified in Datasheet