

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

Optional Heatsink

High Speed On/Off Control

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

RF / ELECTRICAL				
PARAMETER	MIN	TYP	MAX	UNIT
Operating Frequency	3100		3500	MHz
P1dB Power Output	37.0	37.0		dBm
PSat Power Output		37.0		dBm
Gain			v	dB
Gain Flatness				dB
Linear Power		30.0		dBm
Input Return Loss		0		dB
Operating Voltage				VDC
Current Draw				A
Quiescent Current Draw				A
Switching Time				uS

MECHANICAL		
PARAMETER	VALUE	UNIT
Dimensions (L x W x H)	3.75x1.9x0.493	in
RF Connectors (Input / Output)	SMA-F / SMA-F	--
DC / Control Connector	9 Pin Micro-D	--
Cooling	Baseplate Conduction - Optional Heatsink Available	--
Mounting	6-32 Threaded Holes	--
Weight	4	oz
Weight with Heatsink	14	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			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	GND	Ground
3	+VDC	Supply Voltage - Range Specified in Datasheet
4	+VDC	Supply Voltage - Range Specified in Datasheet
5	Amp Enable	TTL On/Off Low=Enable, High=Disable
GND	GND	Ground
7	+VDC	Supply Voltage - Range Specified in Datasheet
8	+VDC	Supply Voltage - Range Specified in Datasheet
9	GND	Ground