

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

Temperature Output

Thermal Shutdown

Forward Power Measurement

Reflected Power Measurement

Specifications subject to change without notice. Typical performance at 12.0VDC at 25°C in a 50Ω system

RF / ELECTRICAL				
PARAMETER	MIN	TYP	MAX	UNIT
Operating Frequency	800		1000	MHz
P1dB Power Output		47.0		dBm
PSat Power Output				dBm
Gain		58.0	v	dB
Gain Flatness		1.0	1.5	dB
Linear Power		40.0		dBm
Input Return Loss	-15	-20		dB
Operating Voltage	11.0	12.0	13.0	VDC
Current Draw		15.0		A
Quiescent Current Draw				A
Switching Time		1.0		uS

MECHANICAL		
PARAMETER	VALUE	UNIT
Dimensions (L x W x H)	7.5x3.97x0.793	in
RF Connectors (Input / Output)	SMA-F / SMA-F	--
DC / Control Connector	Feedthru Pins	--
Cooling	Baseplate Conduction - Optional Heatsink Available	--
Mounting	6-32 Feedthru	--
Weight	22	oz
Weight with Heatsink	57	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	Amp Enable	TTL On/Off Low=Enable, High=Disable
3	FWD	Forward Power Measurement
4	+VDC	Supply Voltage - Range Specified in Datasheet