

DESCRIPTION

This class AB LDMOS 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**

Optional Heatsink
High Speed On/Off Control
Temperature Output

Forward Power Measurement
Thermal Shutdown

Specifications subject to change without notice. Typical performance at +24VDC, +25°C, and in a 50Ω system.

RF / ELECTRICAL				
PARAMETER	MIN	TYP.	MAX	UNIT
Operating Frequency	290		320	MHz
PSat Power Output		+50.0		dBm
Gain	50.0	51.0		dB
Gain Flatness		0.5	0.7	dB ¹
Linear Power Output		41.0		dBm
Input Return Loss	-12	-14		dB
Operating Voltage	+16	+24	+32	VDC
Current Draw		8.0	9.5	A
Quiescent Current Draw		1.0		A
Switching Time		1.0	2.0	μS

1 – Gain flatness recorded represents a peak-peak measurement across the **entire operating band**. Gain flatness is typically much lower across significant portions of this band. Consult the gain response plots for details.

MECHANICAL

PARAMETER	VALUE	UNIT
Dimensions (L x W x H)	7 x 4.75 x 0.963	in
RF Connectors (Input / Output)	N-F / N-F	--
DC / Control Connector	7W2 Male	--
Cooling	Baseplate Conduction - Optional Heatsink Available	--
Mounting	6-32 Threaded Holes	--
Weight	0	oz.
Weight with Heatsink	0	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	+2		dBm
Load VSWR @ P1dB	Open / Short Output Protection		--
PA Baseplate Shutoff Temperature	+ 90		°C

DC / CONTROL PINS

PIN LABEL	NAME	DESCRIPTION
A1	GND	Ground
1	TEMP	Temp Monitor: Temp in DegC = (Vout - 0.5V) / 10
2	Amp Enable	TTL On/Off Low=Enable, High=Disable
3	Current SNS	Voltage Output representing current draw
4	GND	Ground
5	FWD	Forward Power Detection
A2	+VDC	Supply Voltage - Range Specified in Datasheet