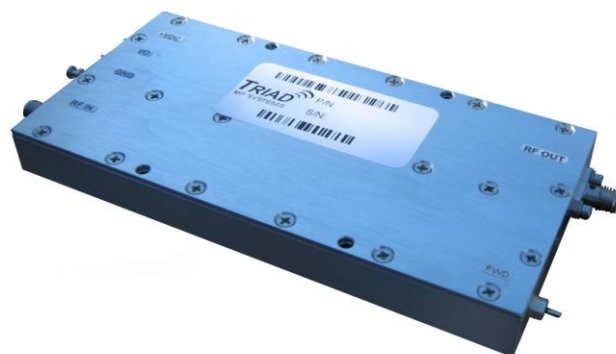


DESCRIPTION

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 Voltage Protection
Forward Power Measurement

High Speed On/Off Control
Optional Heatsink

Specifications subject to change without notice. Typical performance at +12VDC, +25°C, and in a 50Ω system.

RF / ELECTRICAL				
PARAMETER	MIN	TYP.	MAX	UNIT
Operating Frequency	800		1000	MHz
P1dB Power Output		+39.0		dBm
Linear Power Output		30.0		dBm
Linear Power Test Conditions	2 Tone with 50 dBc			--
Gain		35.0		dB
Gain Flatness		0.5		dB ¹
Input Return Loss		-15		dB
Operating Voltage	+11	+12	+13	VDC
Current Draw		1.9		A
Quiescent Current Draw		1.9		A
Switching Time		1.0	2.0	uS

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 if available.

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	Feedthru Pins	--
Cooling	Baseplate Conduction - Optional Heatsink Available	--
Mounting	4-40 Thru Holes	--
Weight	7	oz.
Weight with Heatsink	17	oz.

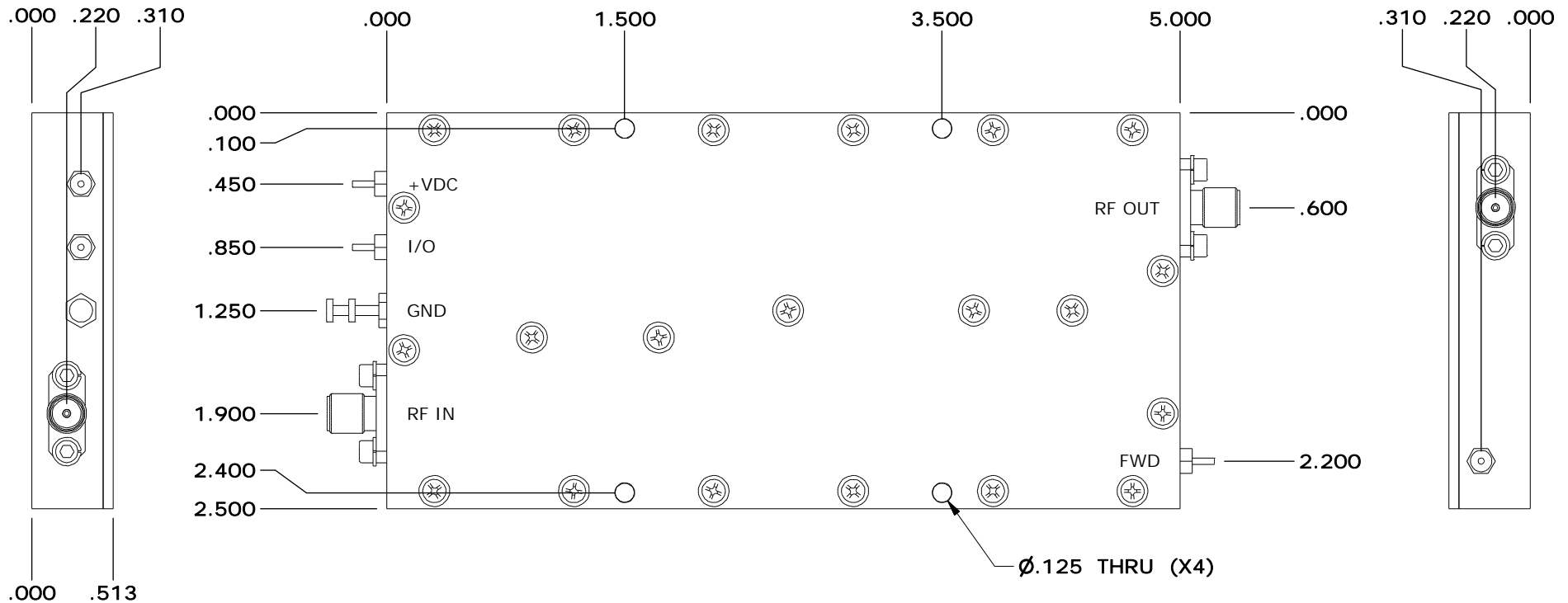
ENVIRONMENTAL / PROTECTIONS

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	+6		dBm
Load VSWR @ P1dB	Open / Short Output Protection		--
PA Baseplate Shutoff Temperature	+ 90		°C

DC / CONTROL PINS

PIN LABEL	NAME	DESCRIPTION
1	+VDC	Supply Voltage - Range Specified in Datasheet
2	Amp Enable	TTL On/Off Low=Enable, High=Disable
3	GND	Ground
4	FWD	Forward Power Measurement

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
O	INITIAL RELEASE	8/24/15	DMC



DRAWN	DMC	8/24/2015
DESIGNED	PA	5/18/2015
CHECKED		
ENG APPROVED		
MFG APPROVED		

DIMENSIONS ARE IN INCHES
UNLESS SPECIFIED OTHERWISE

DECIMALS	FRACTIONS	ANGLES
XX ±.01	± 1/32	± 2°
.XXX ±.005		



180 TICES LANE
BUILDING A, SUITE 107
EAST BRUNSWICK, NJ 08816
855- 558- 1001

HOUSING OUTLINE DRAWING 142

SIZE	DWG NO.	REV
A	OL_142	O
SCALE: NONE	CAGE CODE 67DZ3	SHEET 1 OF 3

A

B

C

D

E

OPTIONAL HEATSINK

1.534

.324

.000

.000 .300

4.700 5.000

.000

.200

.925

1.325

1.725

2.375

3.250

.000

1.075

2.675

DRAWN	DMC	8/24/2015	HOUSING OUTLINE DRAWING 142		
DESIGNED	PA	5/18/2015			
CHECKED			SIZE	DWG NO.	REV
ENG APPROVED			A	OL_142	0
MFG APPROVED			SCALE: NONE	CAGE CODE 67DZ3	SHEET 2 OF 3

A

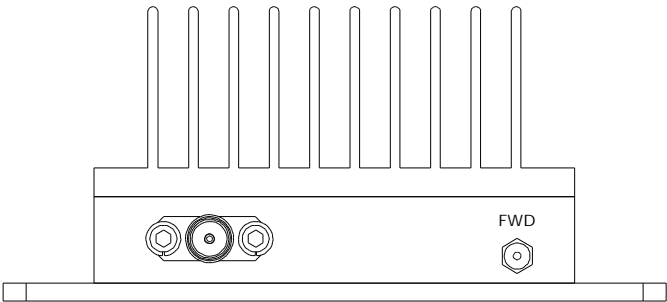
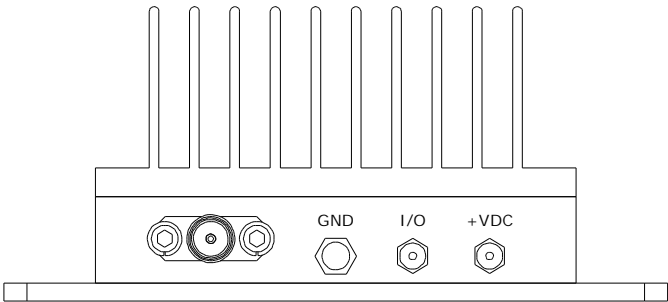
B

C

D

E

DC CONNECTIONS



DC PINOUT		
PIN	FUNCTION	DESCRIPTION
1	GND	DC RETURN
2	I/O	TTL ON/OFF - HIGH = ON, LOW = OFF, NO CONNECTION = ON
3	+VDC	SUPPLY VOLTAGE - RANGE SPECIFIED IN DATA SHEET
4	FWD	FORWARD DETECTOR - RANGE SPECIFIED IN DATA SHEET

DRAWN	DMC	8/24/2015	HOUSING OUTLINE DRAWING 142		
DESIGNED	PA	5/18/2015			
CHECKED			SIZE	DWG NO.	REV
ENG APPROVED			A	OL_142	0
MFG APPROVED			SCALE: NONE	CAGE CODE 67DZ3	SHEET 3 OF 3