

## 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

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	6000		18000	MHz
P1dB Power Output	+29.0	+30.0		dBm
Gain	34.0	35.0		dB
Gain Flatness		1.0	2.0	dB <sup>1</sup>
Input Return Loss	-10	-12		dB
Operating Voltage	+11	+12	+13	VDC
Current Draw		1.0	2.0	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 if available.

### MECHANICAL

PARAMETER	VALUE	UNIT
Dimensions (L x W x H)	3 x 1.9 x 0.5	in
RF Connectors (Input / Output)	SMA-F / SMA-F	--
DC / Control Connector	Feedthru Pins	--
Cooling	Baseplate Conduction - Optional Heatsink Available	--
Mounting	2-56 Threaded Holes in Baseplate	--
Weight	3	oz.
Weight with Heatsink	6	oz.

### ENVIRONMENTAL / PROTECTIONS

PARAMETER	MIN	MAX	UNIT
Operating Temp. (Housing Temp.)	-40	+85	°C
Humidity Range	0-100		%
Altitude	0-60,000		ft.
Shock / Vibration	MIL-STD-810 and equivalents		--
Max RF Input	-2		dBm
PA Baseplate Shutoff Temperature	+ 90		°C

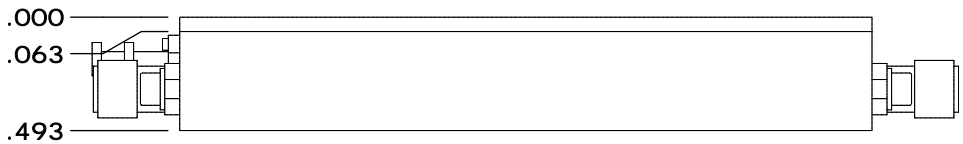
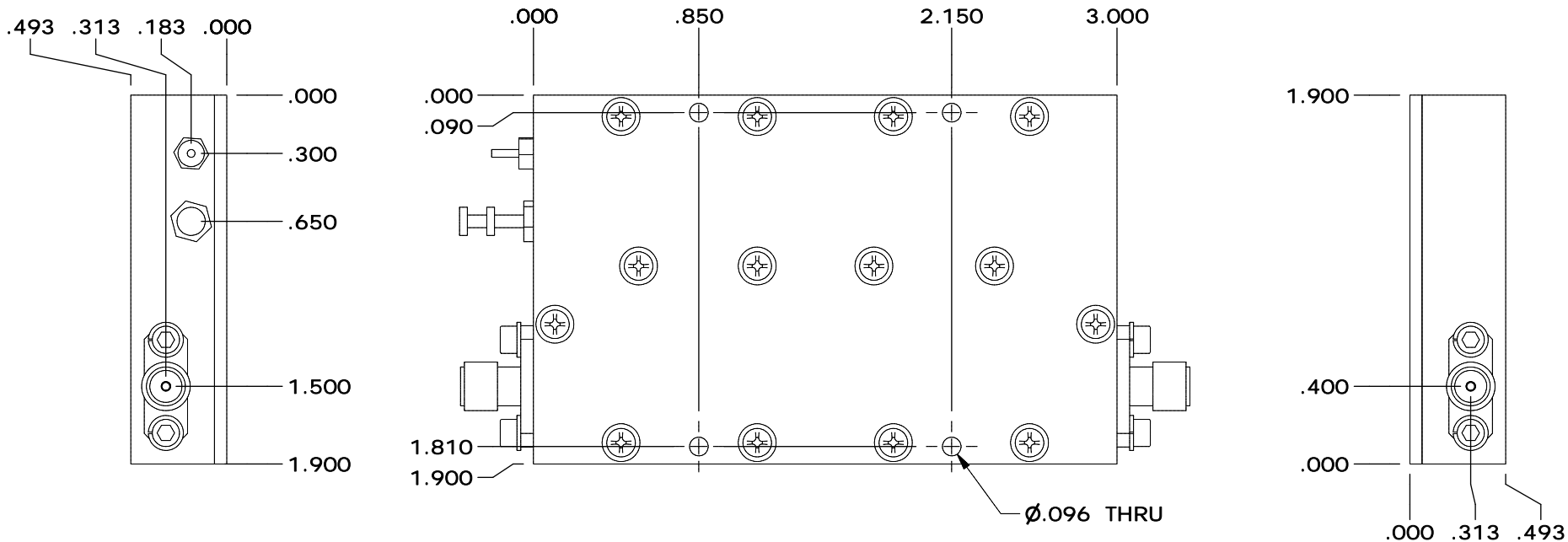
### INPUT/OUTPUT PINS

<b>AMPLIFIER CONNECTOR TYPE:</b>		FEEDTHROUGH PINS
<b>TRIAD CABLE PART NUMBER:</b>		N/A
PIN NUMBER	LABEL	DESCRIPTION
1	GND	Ground
2	+VDC	Supply Voltage - Range Specified in Datasheet

### Configuration Options

Model Number	Description
TA1137	No Heat Sink Included
TA1137 – HS	Standard Heat Sink
TA1137 – HSF	Heat Sink with Integrated Cooling Fan
TA1137 – HSX	Custom Heat Sink Configuration
TA1137 – DOX	Custom Amplifier Configuration (issued by Triad upon customer request)

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
0	INITIAL RELEASE	6/6/18	SC



DRAWN	Keenan	6/6/2018
DESIGNED	DMC	4/16/2012
CHECKED		
ENG APPROVED		
MFG APPROVED		



11 HARTS LANE SUITE 1  
EAST BRUNSWICK, NJ 08816  
855- 558- 1001

HOUSING OUTLINE DRAWING 108

DIMENSIONS ARE IN INCHES UNLESS SPECIFIED OTHERWISE TOLERANCES			SIZE	DWG NO.	REV
DECIMALS	FRACTIONS	ANGLES	A	OL_108	0
XX ±.01	± 1/32	± 2°	SCALE: NONE	CAGE CODE 67DZ3	SHEET 1 OF 1
.XXX ±.005					