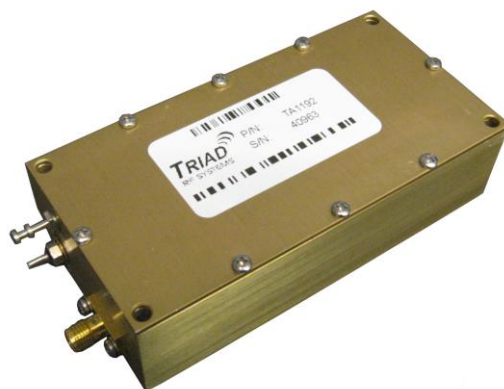


## DESCRIPTION

This class A 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

High Speed On/Off Control

Specifications subject to change without notice. Typical performance at +28VDC +25°C, and in a 50Ω system.

RF / ELECTRICAL				
PARAMETER	MIN	TYP.	MAX	UNIT
Operating Frequency	1		525	MHz
PSat Power Output	+41.0	+43.0		dBm
Gain		45.0		dB
Gain Flatness		1.0		dB <sup>1</sup>
Input Return Loss		-14		dB
Operating Voltage	+24	+28	+32	VDC
Current Draw		2.4	2.8	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)	4 x 2.4 x 1.1	in
RF Connectors (Input / Output)	SMA-F / SMA-F	--
DC / Control Connector	Feedthru Pins	--
Cooling	Baseplate Conduction - Optional Heatsink Available	--
Weight	7	oz.
Weight with Heatsink	14	oz.

## ENVIRONMENTAL / PROTECTIONS

PARAMETER	MIN	MAX	UNIT
Operating Temp. (Housing Temp.)	-40	+85	°C
Humidity Range	0-100		%
Altitude	0-30,000		ft.
Shock / Vibration	MIL-STD-810 and equivalents		--
PA Baseplate Shutoff Temperature	+ 85		°C

## INPUT/OUTPUT PINS

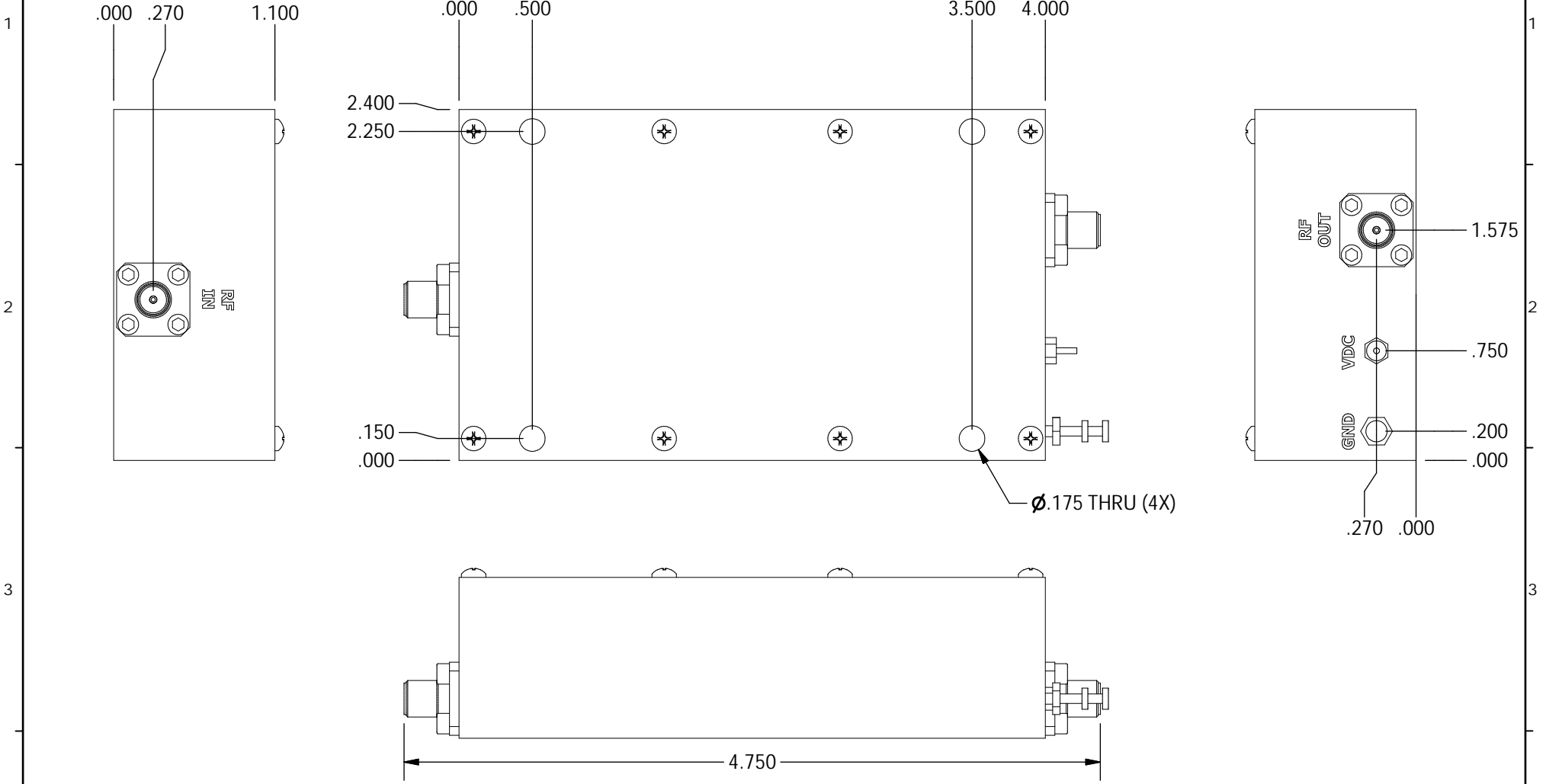
<b>AMPLIFIER CONNECTOR TYPE:</b>		FEEDTHROUGH PINS
<b>TRIAD CABLE PART NUMBER:</b>		N/A
PIN NUMBER	LABEL	DESCRIPTION
1	GND	Ground
2	+VDC	Supply Voltage - Range Specified in Datasheet

## Configuration Options

Model Number	Description
TA1192	No Heat Sink Included
TA1192 – HS	Standard Heat Sink
TA1192 – HSF	Heat Sink with Integrated Cooling Fan
TA1192 – HSX	Custom Heat Sink Configuration
TA1192 – DOX	Custom Amplifier Configuration (issued by Triad upon customer request)

MATERIAL: ALLOY 6061      FINISH: NONE

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



DRAWN	DEAN	1/31/2016
DESIGNED	DEAN	1/31/2016
CHECKED		
ENG APPROVED		
MFG APPROVED		

**TRIAD**  
RF SYSTEMS

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

DIMENSIONS ARE IN INCHES UNLESS SPECIFIED OTHERWISE		SIZE	DWG NO.	REV
DECIMALS	FRACTIONS	A	150	
XX ± .01	± 1/32			
.XXX ± .005	± 2'	SCALE: NONE	CAGE CODE 67DZ3	SHEET 1 OF 2