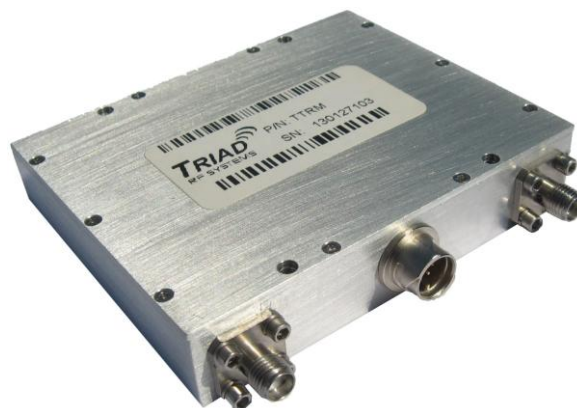


DESCRIPTION

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

Manual or Automatic Tx/Rx Switching Available Optional Heatsink

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	2400		2500	MHz
PSat Power Output		+44.0		dBm
Gain	24.0	25.0		dB
Gain Flatness			1.0	dB ¹
Input Return Loss	-12	-16		dB
Operating Voltage	+27	+28	+30	VDC
Current Draw			2.4	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)	3.33 x 2.69 x 0.65	in
RF Connectors (Input / Output)	SMA-F / SMA-F	--
DC / Control Connector	Circular Locking	--
Cooling	Baseplate Conduction - Optional Heatsink Available	--
Mounting	4-40 Thru Holes	--
Weight	5	oz.
Weight with Heatsink	15	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		--
Max RF Input	+22		dBm
PA Baseplate Shutoff Temperature	+ 90		°C

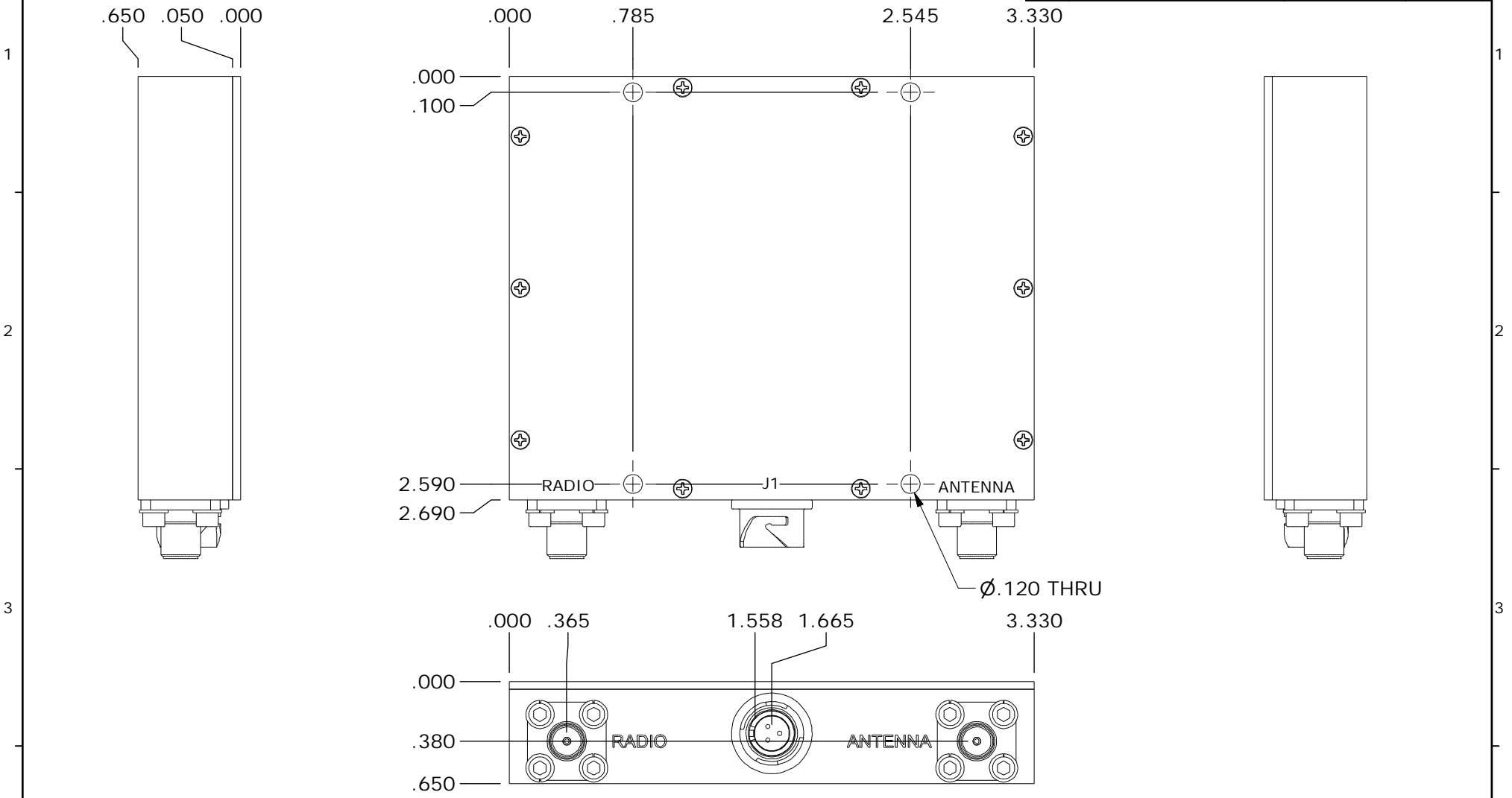
INPUT/OUTPUT PINS

AMPLIFIER CONNECTOR TYPE:		CIRCULAR BAYONET LOCKING MALE
TRIAD CABLE PART NUMBER:		CBL13
PIN NUMBER	LABEL	DESCRIPTION
1	Tx/Rx	Tx / Rx Switching (+5V = Tx Amp Active / 0V = Rx Amp Active)
2	GND	Ground
3	+VDC	Supply Voltage - Range Specified in Datasheet

Configuration Options

Model Number	Description
TA1157	No Heat Sink Included
TA1157 – HS	Standard Heat Sink
TA1157 – HSF	Heat Sink with Integrated Cooling Fan
TA1157 – HSX	Custom Heat Sink Configuration
TA1157 – DOX	Custom Amplifier Configuration (issued by Triad upon customer request)

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
0	INITIAL RELEASE	08/03/2014	DMC
1	E18329	6/6/18	SC



DRAWN	AHA	6/17/2014
DESIGNED	Stephen	5/4/2017
CHECKED	BG	6/17/2014
ENG APPROVED		
MFG APPROVED		

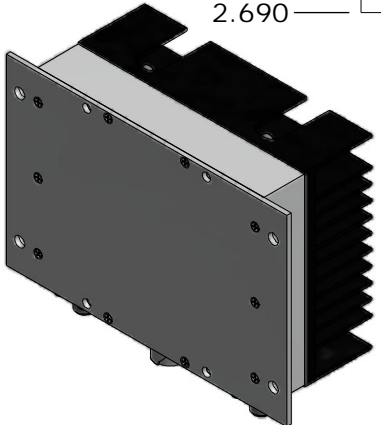
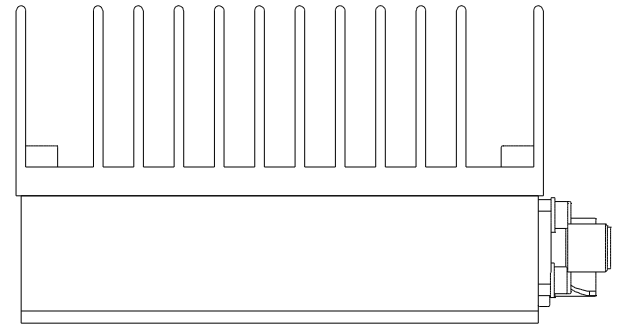
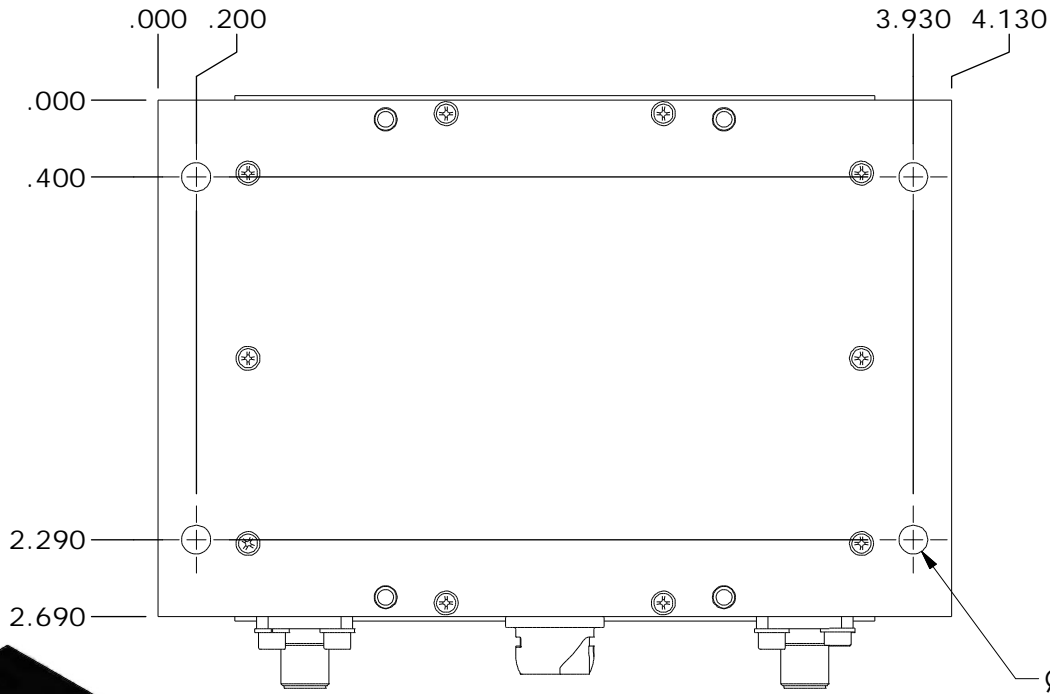
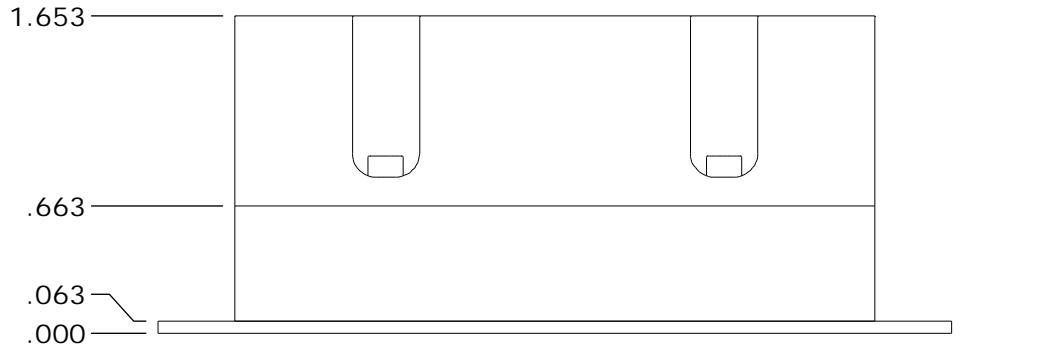
TRIAD RF SYSTEMS
 11 HARTS LANE SUITE I
 EAST BRUNSWICK, NJ 08816
 855- 558- 1001

HOUSING OUTLINE DRAWING 118

DIMENSIONS ARE IN INCHES UNLESS SPECIFIED OTHERWISE TOLERANCES			SIZE	DWG NO.	REV
DECIMALS	FRACTIONS	ANGLES	A	OL_118	1
XX ±.01	± 1/32	± 2°	SCALE: NONE	CAGE CODE 67DZ3	SHEET 1 OF 3
XXX ±.005					

A B C D E

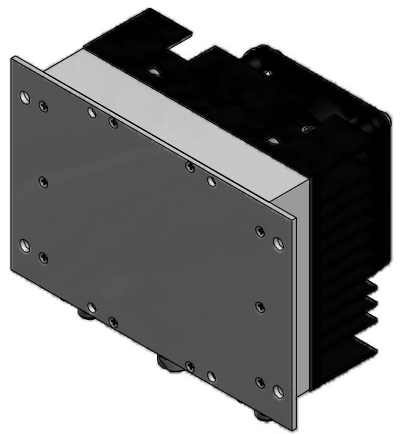
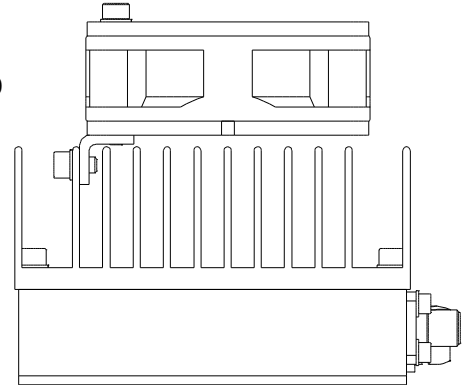
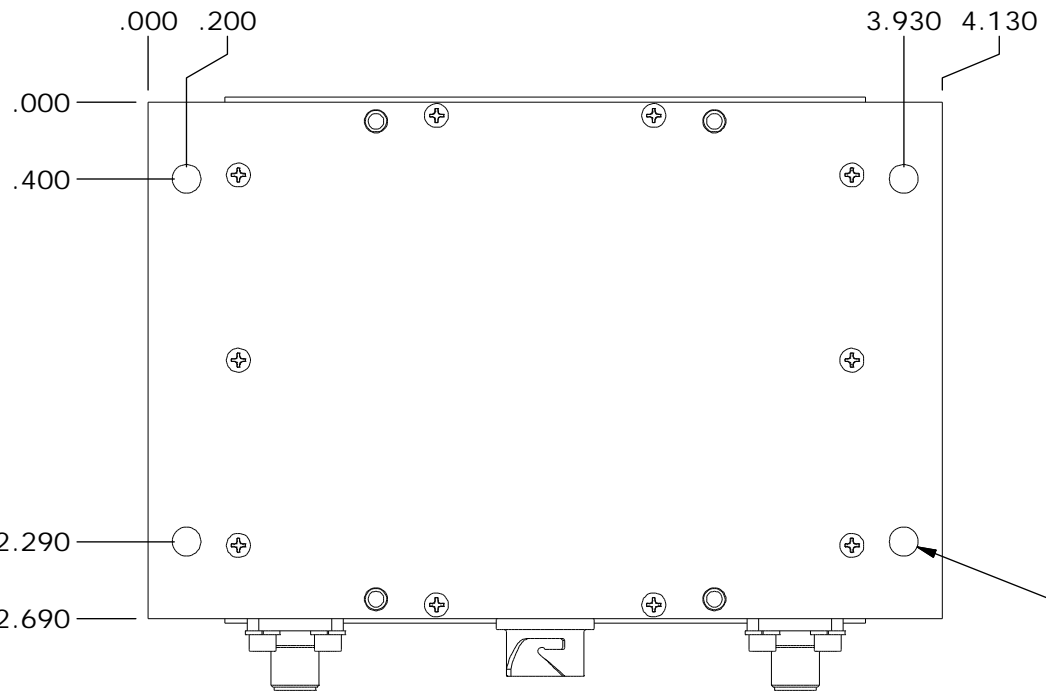
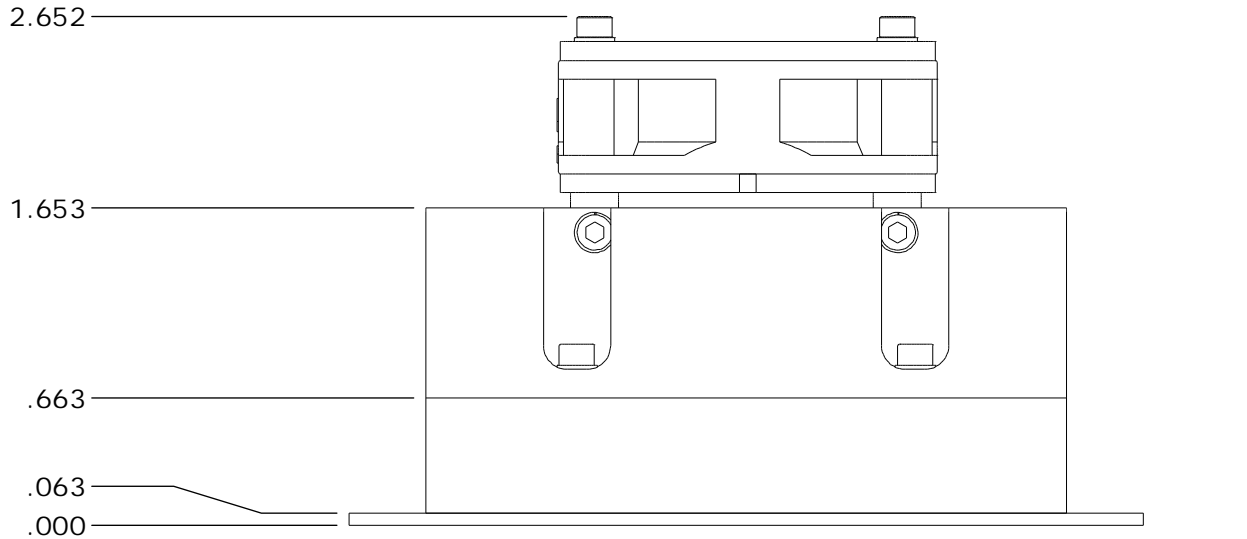
HEATSINK OPTION



A B C D E

DRAWN	AHA	6/17/2014	HOUSING OUTLINE DRAWING 118		
DESIGNED	DCH	7/12/2013	SIZE	DWG NO.	REV
CHECKED	BG	6/17/2014	A	OL_118	1
ENG APPROVED			SCALE: NONE	CAGE CODE 67DZ3	SHEET 2 OF 3
MFG APPROVED					

HEATSINK FAN OPTION



DRAWN	AHA	6/17/2014	HOUSING OUTLINE DRAWING 118		
DESIGNED	Stephen	5/4/2017	SIZE	DWG NO.	REV
CHECKED	BG	6/17/2014	A	OL_118	1
ENG APPROVED			SCALE: NONE	CAGE CODE	SHEET 3 OF 3
MFG APPROVED				67DZ3	