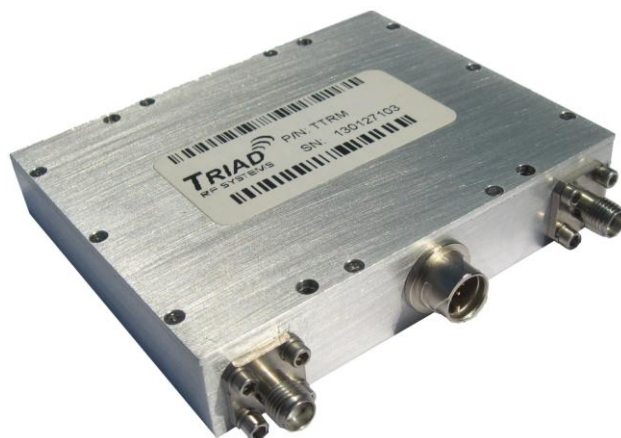


DESCRIPTION

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
Linear Power Output		35.0		dBm
Input Return Loss	-12	-16		dB
Operating Voltage	+27	+28	+30	VDC
Current Draw			2.4	A
Quiescent Current Draw				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)	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.

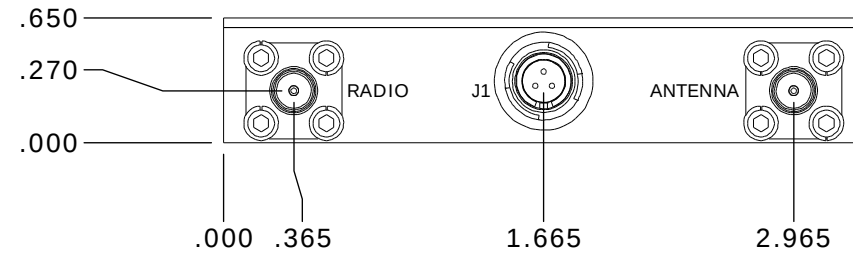
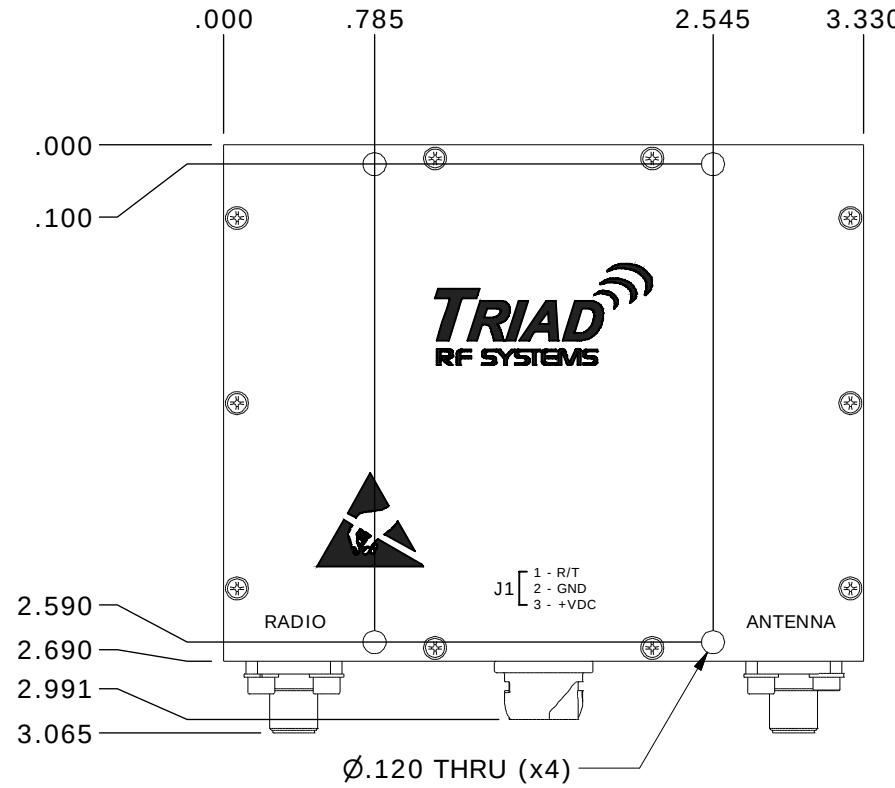
ENVIRONMENTAL / PROTECTIONS

PARAMETER	MIN	MAX	UNIT
Operating Temp. (Housing Temp.)	-40	+85	°C
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	+22		dBm
Load VSWR @ P1dB	Open / Short Output Protection		--
PA Baseplate Shutoff Temperature	+ 90		°C

DC / CONTROL PINS

PIN LABEL	NAME	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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
0	INITIAL RELEASE	08 / 03 / 2014	DMC

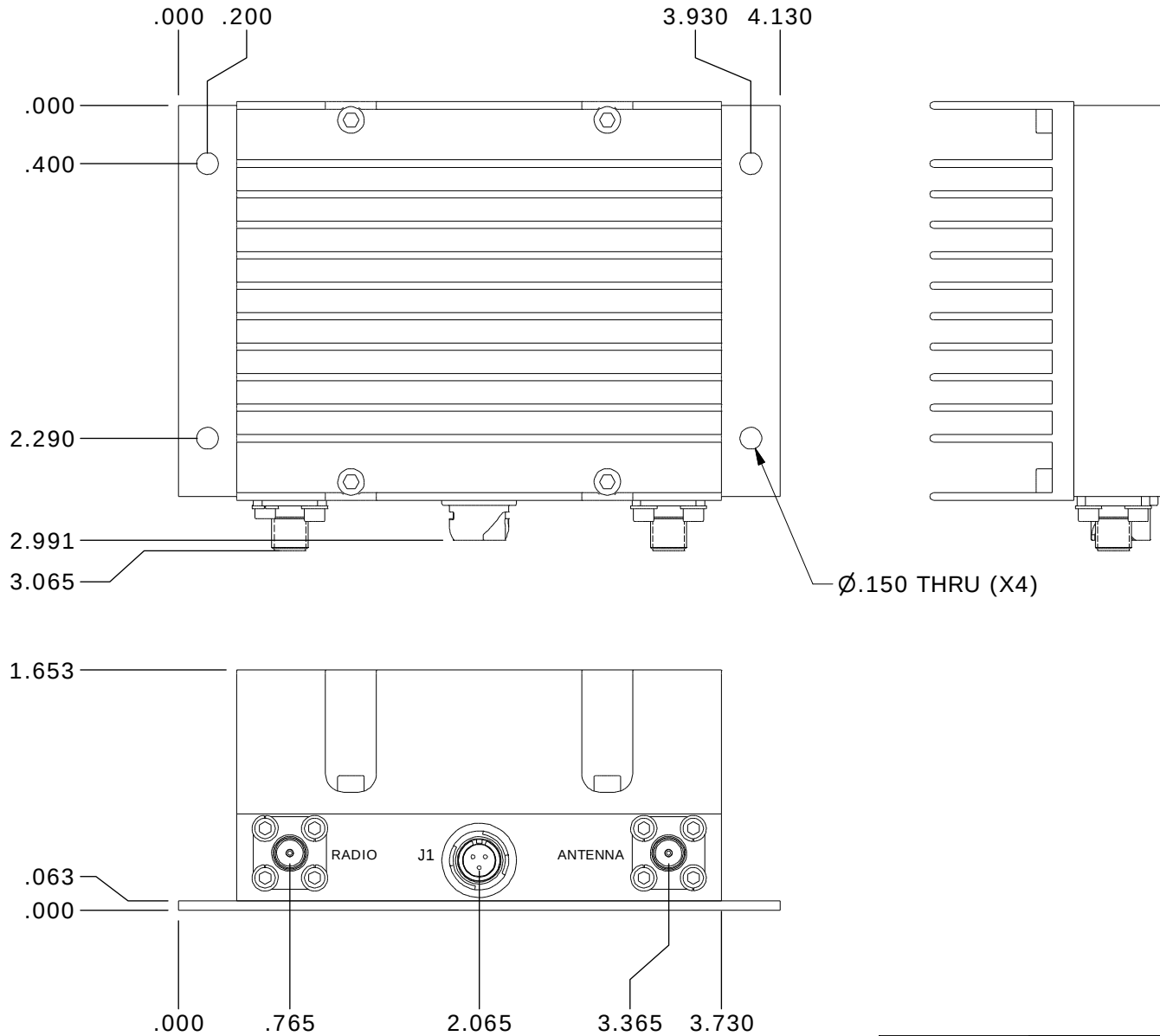


DRAWN	AHA	6 / 17 / 2014
DESIGNED	DCH	7 / 12 / 2013
CHECKED	BG	6 / 17 / 2014
ENG APPROVED		
MFG APPROVED		

DIMENSIONS ARE IN INCHES
UNLESS SPECIFIED OTHERWISE
TOLERANCES
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 118	
SIZE A	DWG NO. OL_118	REV 0	
SCALE: NONE	CAGE CODE 67DZ3	SHEET 1 OF 3	

OPTIONAL HEATSINK



DRAWN	AHA	6/17/2014	HOUSING OUTLINE DRAWING 118		
DESIGNED	DCH	7/12/2013			
CHECKED	BG	6/17/2014	SIZE	DWG NO.	REV
ENG APPROVED			A	OL_118	0
MFG APPROVED			SCALE: NONE	CAGE CODE 67DZ3	SHEET 2 OF 3

A

B

C

D

E

1

1

2

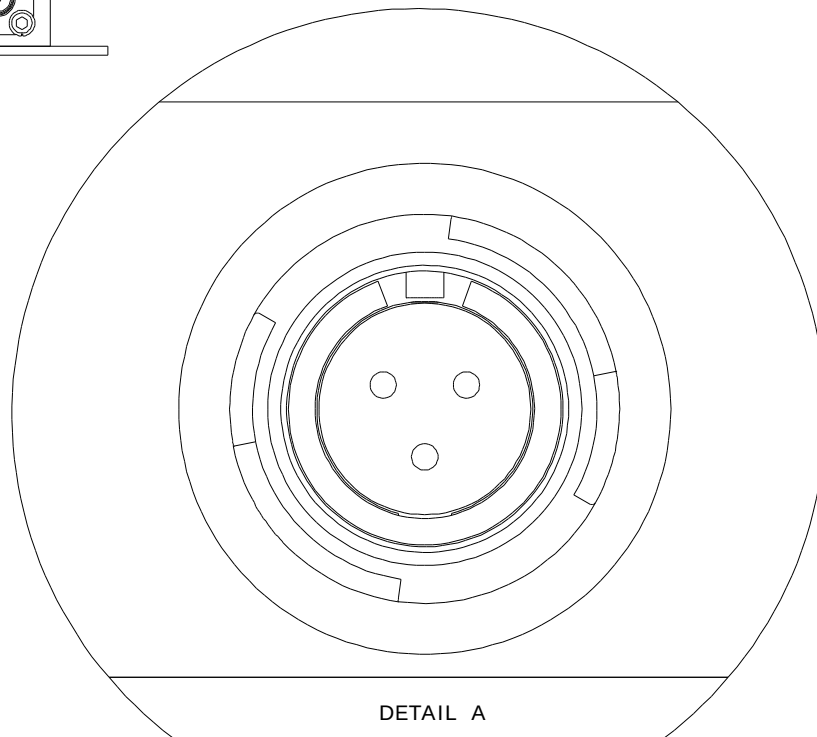
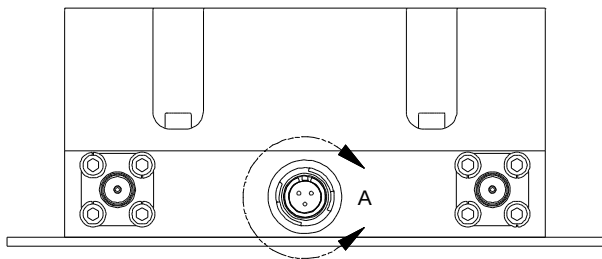
2

3

3

4

4



PINOUT TABLE		
PIN	LABEL	FUNCTION
1	R/T	RX/TX
2	GND	GROUND WIRE
3	+DC	SUPPLY VOLTAGE

NOTES:

1. VIEW FACING CONNECTOR INTERFACE (AMP SIDE).
2. P/N OF CONNECTOR ON AMPLIFIER: HIROSE LF07WBP-3P.
3. UNIT SHOWN WITH OPTIONAL HEATSINK.

DRAWN	AHA	6/17/2014	HOUSING OUTLINE DRAWING 118			
DESIGNED	DCH	7/12/2013				
CHECKED	BG	6/17/2014	SIZE A	DWG NO. OL_118	REV 0	
ENG APPROVED			SCALE: NONE		CAGE CODE 67DZ3	SHEET 3 OF 3
MFG APPROVED						

A

B

C

D

E