

DESCRIPTION

This class AB GaN 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-Temperature Protection

Specifications subject to change without notice. Typical performance at +5VDC at 25°C in a 50Ω system

TX SPECIFICATIONS				
PARAMETER	MIN	TYP.	MAX	UNIT
Operating Frequency	2000		2500	MHz
PSat Power Output		+36.0		dBm
Gain	27.0	28.0		dB
Gain Flatness		0.7	1.0	± dB
Input Return Loss	-15			dB
Operating Voltage		+5		VDC
Current Draw		2.3	2.9	A

MECHANICAL		
PARAMETER	VALUE	UNIT
Dimensions (L x W x H)	2.7 x 1.3 x 0.46	in
RF Connectors (Input / Output)	MMCX Edge / MMCX Edge	--
DC / Control Connector	6 Pin Rectangular	--
Cooling	Baseplate Conduction - Optional Heatsink Available	--
Mounting	2-56 Thru Hole	--
Weight	1	oz.
Weight With Heatsink	2	oz.

TA1134

2000-2500 MHz 4W POWER AMPLIFIER

ENVIRONMENTAL / PROTECTIONS			
PARAMETER	MIN	MAX	UNIT
Operating Temperature (Housing Temp.)	-40	+85	°C
Humidity Range	0-95		%
Shock / Vibration	MIL-STD-810 and equivalents		--
Max RF Input	16		dBm
PA Baseplate Shutoff Temperature	+90		°C

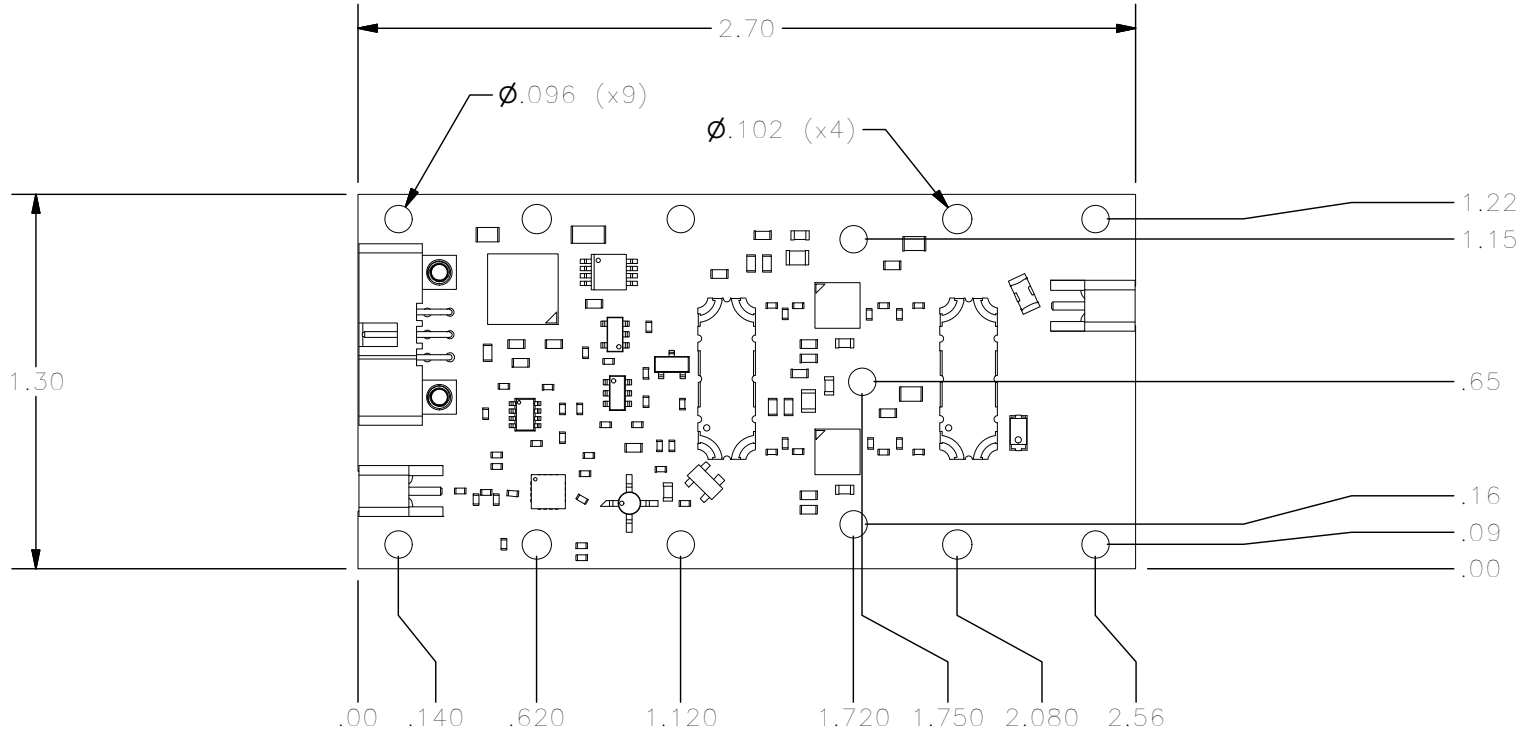
INPUT/OUTPUT PINS		
AMPLIFIER CONNECTOR TYPE:		6 PIN RECTANGULAR MALE
TRIAD CABLE PART NUMBER:		CBL53
PIN LABEL	NAME	DESCRIPTION
1	Amp Enable	TTL Hi or No Connection = Enable, TTL Lo = Disable
2	Sig. GND	Signal Ground
3,4	GND	Ground
5,6	+VDC	Supply Voltage - Range Specified in Datasheet

Configuration Options	
Model Number	Description
TA1134	No Heat Sink Included
TA1134 – HS	Standard Heat Sink
TA1134 – HSF	Heat Sink with Integrated Cooling Fan
TA1134 – HSX	Custom Heat Sink Configuration
TA1134 – DOX	Custom Amplifier Configuration (issued by Triad upon customer request)

Please confirm with Triad that the desired configuration is available prior to ordering.

A B C D E

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
0	INITIAL RELEASE	4/14/20	DMC



A B C D E

DRAWN	DMC	4/14/2020
DESIGNED	DMC	1/22/2018
CHECKED	DMC	4/14/2020
ENG. APPROVED	DMC	6/19/2019
MFG. APPROVED	DMC	6/19/2019

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

HOUSING OUTLINE 181

DIMENSIONS ARE IN INCHES UNLESS SPECIFIED OTHERWISE		SIZE	DWG. NO.	REV
DECIMALS .XX ±.01 .XXX ±.005	FRACTIONS ± 1/32	ANGLES ± 2°	A	OL_181
SCALE: NONE		CAGE CODE	67DZ3	SHEET 1 OF 1