

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 / Under / Reverse Voltage Protection Temp. Monitor Output
Over-Temperature Protection

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

RF / ELECTRICAL				
PARAMETER	MIN	TYP.	MAX	UNIT
Operating Frequency	300		6000	MHz
PSat Power Output		+45.0		dBm
Gain		45.0		dB
Gain Flatness		3.0		dB ¹
Input Return Loss		-12		dB
Operating Voltage	+12		+28	VDC
Current Draw		4.0		A
Quiescent Current Draw		3.0		A
Switching Time		4.0	8.0	uS

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)	3.75 x 4 x 0.95	in
RF Connectors (Input / Output)	SMA-F / SMA-F	--
DC / Control Connector	21 Pin Micro-D	--
Cooling	Baseplate Conduction - Optional Heatsink Available	--
Mounting	4-40 Thru Holes	--
Weight	16	oz.

ENVIRONMENTAL / PROTECTIONS

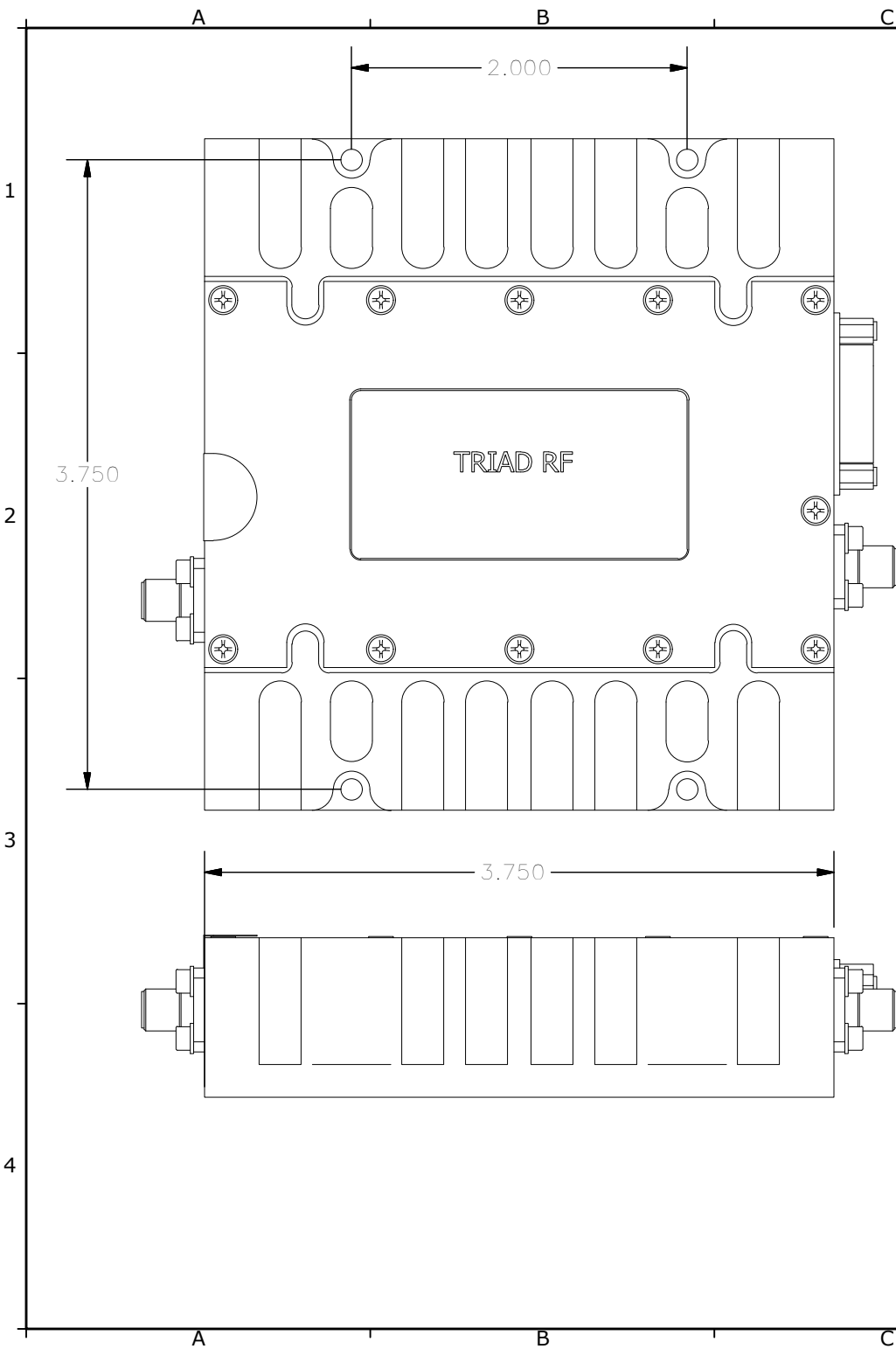
PARAMETER	MIN	MAX	UNIT
Operating Temp. (Housing Temp.)	-20	+60	°C
Humidity Range	0-95		%
Altitude	0-20,000		ft.
Shock / Vibration	MIL-STD-810 and equivalents		--
Max RF Input	+8		dBm
PA Baseplate Shutoff Temperature	+ 85		°C

INPUT/OUTPUT PINS

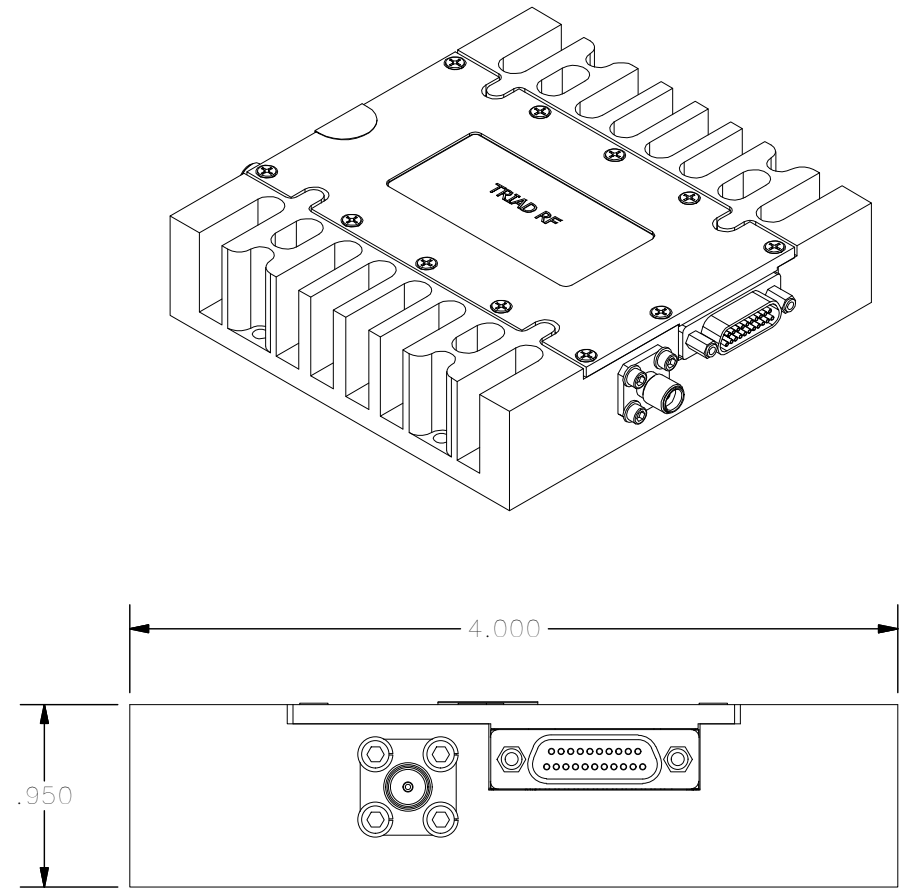
AMPLIFIER CONNECTOR TYPE:		21 PIN MICRO-D FEMALE
TRIAD CABLE PART NUMBER:		CBL77
PIN NUMBER	LABEL	DESCRIPTION
1-3, 12-15	+VDC	Supply Voltage - Range Specified in Datasheet
4-7, 16-18	GND	Ground
8	Amp Enable	TTL High = Enable, TTL Low or No Connection = Disable
9	TEMP	Temp Monitor: Temp in DegC = (Vout - 0.5V) *100
10	STATUS	PA Status - TTL High = Normal Operation, TTL Low = Error Condition
11	SGND	Signal Ground
19	NC	No Connect
20	NC	No Connect
21	V STATUS	Vmonitor - Power Supply Voltage Level - Not Current Limited

Configuration Options

Model Number	Description
TA1264	No Heat Sink Included
TA1264 – HS	Standard Heat Sink
TA1264 – HSF	Heat Sink with Integrated Cooling Fan
TA1264 – HSX	Custom Heat Sink Configuration
TA1264 – DOX	Custom Amplifier Configuration (issued by Triad upon customer request)



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
0	INITIAL RELEASE	12/13/19	PA



DRAWN	PA	12/13/2019
DESIGNED	PA	10/2/2019
CHECKED		
ENG. APPROVED		
MFG. APPROVED		

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

DIMENSIONS ARE IN INCHES UNLESS SPECIFIED OTHERWISE		SIZE	DWG NO.	REV
DECIMALS	FRACTIONS	A	OL_236_R0	0
.XX ±.01	± 1/32	SCALE: NONE	CAGE CODE 67DZ3	SHEET 1 OF 1
.XXX ±.005	± 2'			