

DESCRIPTION

This class A GaAs 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

Auto Gain Control

Optional Heatsink

Temperature Output

Over / Under / Reverse Voltage Protection

Specifications subject to change without notice. Typical performance at +12VDC, +25°C, and in a 50Ω system.

RF / ELECTRICAL				
PARAMETER	MIN	TYP.	MAX	UNIT
Operating Frequency	14400		15400	MHz
P1dB Power Output	+34.0	+35.0		dBm
Gain		43.0		dB
Gain Flatness		0.5	1.3	dB ¹
Linear Power Output		28.0		dBm
Input Return Loss	-10	-13		dB
Operating Voltage	+11	+12	+13	VDC
Current Draw		1.4	1.5	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)	3.25 x 2.265 x 0.5	in
RF Connectors (Input / Output)	SMA-F / SMA-F	--
DC / Control Connector	Feedthru Pins	--
Cooling	Baseplate Conduction - Optional Heatsink Available	--
Mounting	4-40 Thru	--
Weight	4	oz.
Weight with Heatsink	14	oz.

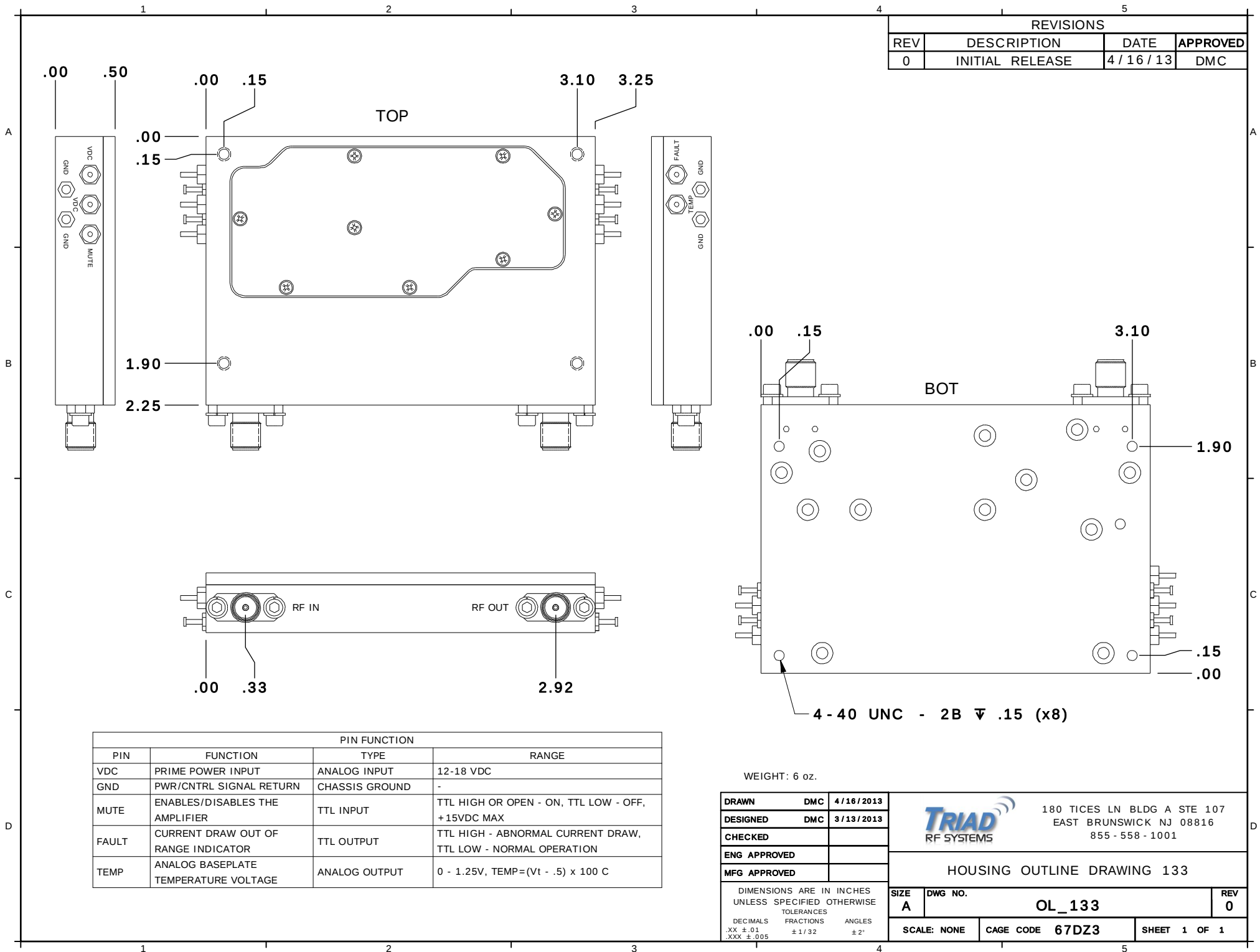
ENVIRONMENTAL / PROTECTIONS

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	-5		dBm
Load VSWR @ P1dB	Open / Short Output Protection		--
PA Baseplate Shutoff Temperature	+ 90		°C

DC / CONTROL PINS

PIN LABEL	NAME	DESCRIPTION
1	+VDC	Supply Voltage - Range Specified in Datasheet
2	+VDC	Supply Voltage - Range Specified in Datasheet
3	MUTE	TTL On/Off Low=Disable, High or No=Enable
4	AGC Disable	Auto Gain Control Disable- No or Low= AGC On, High=AGC Disabled
5	Temp	Temp Monitor: Temp in DegC = (Vout - 0.5V) / 10
6	FAULT	Auto Internal Fault Detection- Low= No Fault, High= Internal Fault
7-10	GND	Ground

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
0	INITIAL RELEASE	4 / 16 / 13	DMC



DRAWN	DMC	4 / 16 / 2013
DESIGNED	DMC	3 / 13 / 2013
CHECKED		
ENG APPROVED		
MFG APPROVED		



180 TICES LN BLDG A STE 107
EAST BRUNSWICK NJ 08816
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HOUSING OUTLINE DRAWING 133

DIMENSIONS ARE IN INCHES UNLESS SPECIFIED OTHERWISE TOLERANCES		SIZE A	DWG NO. OL_133	REV 0
DECIMALS .XX $\pm$.01 .XXX $\pm$.005	FRACTIONS $\pm$ 1 / 32	ANGLES $\pm$ 2°	SCALE: NONE	CAGE CODE 67DZ3
			SHEET 1 OF 1	