

DESCRIPTION

This class AB 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

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

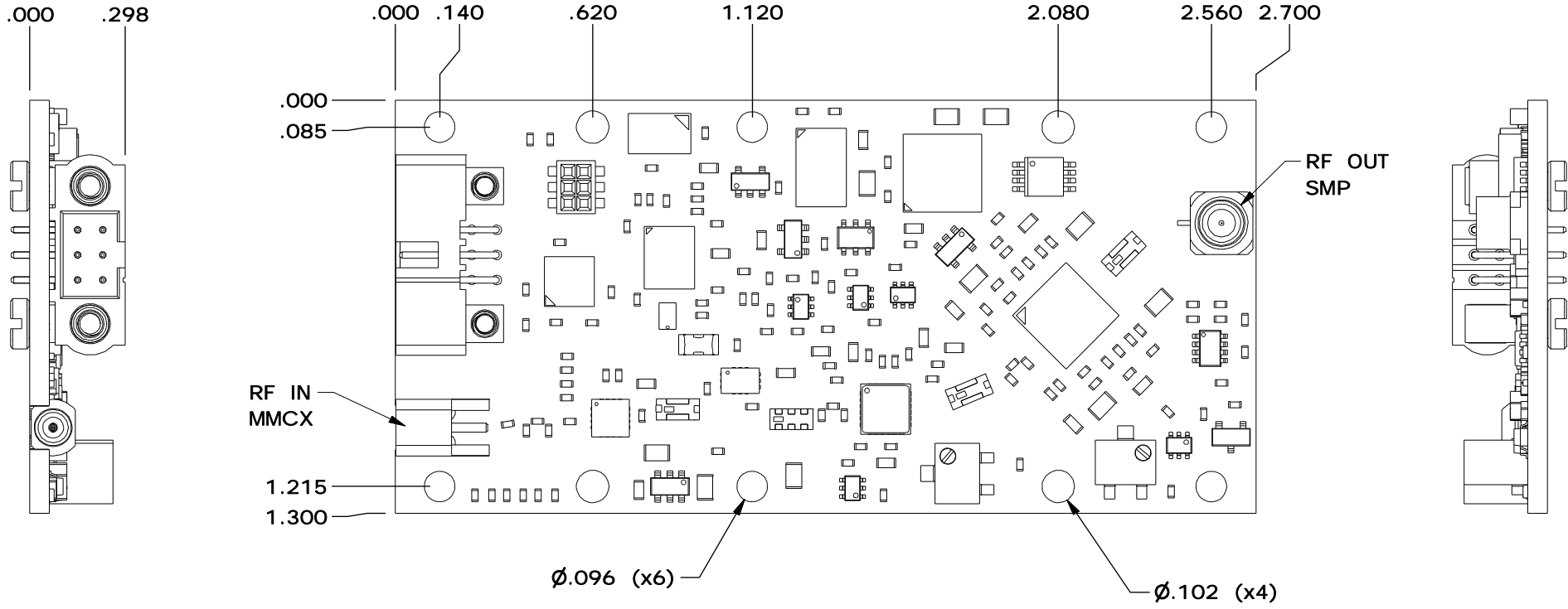
RF / ELECTRICAL				
PARAMETER	MIN	TYP	MAX	UNIT
Input Frequency Range	2850		3350	MHz
Output Frequency Range	8000		8500	MHz
PSat Power Output		+36.0		dBm
Gain	27.0	28.0		dB
Gain Flatness		1.5	2.0	dB
Input Return Loss	-15			dB
Operating Voltage	+10		+14	VDC
Current Draw		1.5	1.8	A
Quiescent Current Draw		1.5		A
Switching Time			2.0	uS

MECHANICAL		
PARAMETER	VALUE	UNIT
Dimensions (L x W x H)	2.7 x 1.3 x 0.339	in
RF Connectors (Input / Output)	MMCX / SMP	--
DC / Control Connector	6 Pin Rectangular	--
Cooling	Baseplate Conduction - Optional Heatsink Available	--
Mounting	4-40 Thru Hole	--
Weight	1	oz.
Weight with Heatsink	2	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	+12.0		dBm
PA Baseplate Shutoff Temperature	+85		°C

DC / CONTROL PINS		
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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
0	INITIAL RELEASE	7/13/18	DMC



DRAWN	DMC	7/13/2018
DESIGNED	DMC	7/13/2018
CHECKED	DMC	7/13/2018
ENG APPROVED	DMC	7/13/2018
MFG APPROVED	DMC	7/13/2018



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HOUSING OUTLINE DRAWING OL_198

DIMENSIONS ARE IN INCHES UNLESS SPECIFIED OTHERWISE		SIZE	DWG NO.	REV
TOLERANCES		A	OL_198	0
DECIMALS	FRACTIONS	SCALE: NONE	CAGE CODE	SHEET
.XX ±.01	± 1/32		67DZ3	1 OF 1
.XXX ±.005	± 2°			