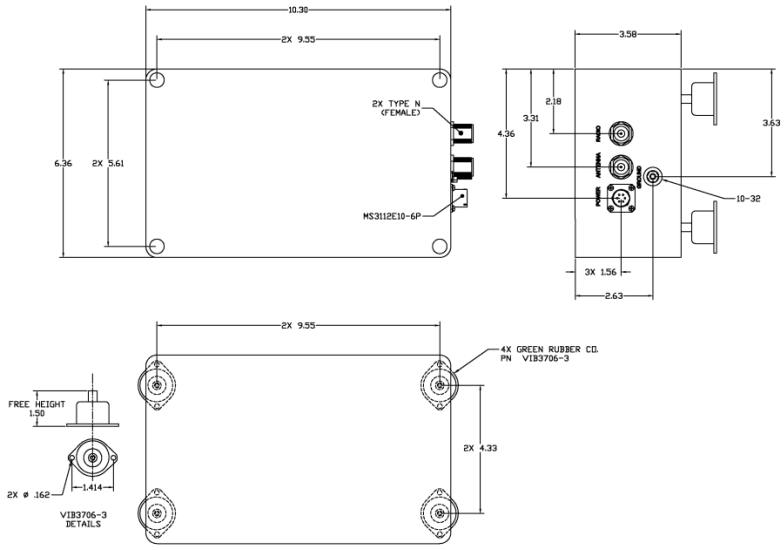
AM-224A-1
LOW NOISE AMPLIFIER

AUTOMATIC TRANSMIT MODE BYPASS
FULL BYPASS MODE WITH POWER OFF



ELECTRICAL SPECIFICATIONS

RECEIVE MODE PERFORMANCE

Gain, 243-270 MHz	29 dB min./ 30.5 dB max.
Passband Roll-off, 243-270 MHz	0.5 dB max.
VSWR, 243-270 MHz	1.5:1 max.
Noise Figure, 243-270 MHz	1.4 dB max.
Input @ 1dB gain compression	0 dBm min.
Input signal (protection level)	+30 dBm, CW
Intercept point, third order	+39 dBm nom.
Reverse Isolation	55 dB min.
Switching Speed (RCVR/XMTR transition)	< 0.6 mS

BYPASS MODE PEFORMANCE

Passband	0-512 MHz
Insertion Loss	0.3 dB max.
VSWR	1.3:1 max.

NOTE 1: The signal path of the LNA is passive when it is in the Transmit Mode. Therefore, amplifier characteristics, such as noise, spurious emissions, harmonics, intermodulation products, and saturation are a function of the ancillary transmitter or amplifier, and cabling.

TRANSMIT MODE PERFORMANCE (Note 1)

Passband	225-400 MHz
Insertion Loss	
225-318 MHz	0.8 dB max.
318-400 MHz	1.0 dB max.
VSWR, 225-400 MHz	1.5:1 max.
RF Input Power, CW	+21 dBW max.

GENERAL CHARACTERISTICS

Operating Power	
Voltage	+ 20 to +32 VDC
Current	0.8 A max.
Environment (IP67 Case)	Airborne/ Shipboard
Temperature	
Operating	-25°C to +55°C
Non-operating	-40°C to +75°C
Size, excluding connectors	10.30" x 6.36" x 3.58"
Weight	8 Pounds
Connectors	
Power, DC	MS3112E10-6P
Antenna, RF	TYPE N
Radio, RF	TYPE N

REV: 5/4/16

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