



# RF Amplifier

## 1 to 30 MHz

### Model BXMP1050

## FEATURES

- Ultra High Linearity
- High Output Power @ 1 dB Comp.
- High Reverse Isolation
- Environmental Screening Available

The Model BXMP1050 is standard high linearity amplifier covering 1 MHz to 30 MHz. This HF amplifier, utilizes a two stage, high linearity push-pull design and a laser sealed housing for the ultimate in environmental protection. This standard design may also be ordered in a screened MIL-STD-883 version as a model SXMP1050. All specification ratings are based on measurements in a 50 ohm system with a DC supply voltage tolerance of +/- 2%.

Parameter	Typical	Min. / Max.
Frequency Range	1 to 30 MHz	1 to 30 MHz
Gain	16 dB	15 dB / 17 dB
Gain Flatness (+/-)	0.5 dB	0.5 dB Max.
P <sub>out</sub> @ 1 dB Compression	31.5 dBm	+31 dBm Min.
Input VSWR	1.5:1	1.6:1 Max.
Output VSWR	1.5:1	1.6:1 Max.
Reverse Isolation	40 dB	-
3rd Order Output Intercept Point**	+58 dBm	+55 dBm Min.
2nd Order Output Intercept Point**	+113 dBm	+110 dBm Min.
Noise Figure	6.0 dB	7.0 dB
Supply Voltage	+24 volts	+24 volts
Supply Current	450 mA	475 mA Max.
**Intercept Point Values are Tested only at Midband.		
*P <sub>in</sub> = +20 dBm max with output terminated at 50 Ω		
Revision: 9/24/2012	Typical values are measured at 25°C but not guaranteed.	
Housing Size	2.980" L x 3.905" W x 0.757" H	
RF Connectors	SMA Female	
Operating Case Temp. (Min./Max. Values)	0°C to +50°C	

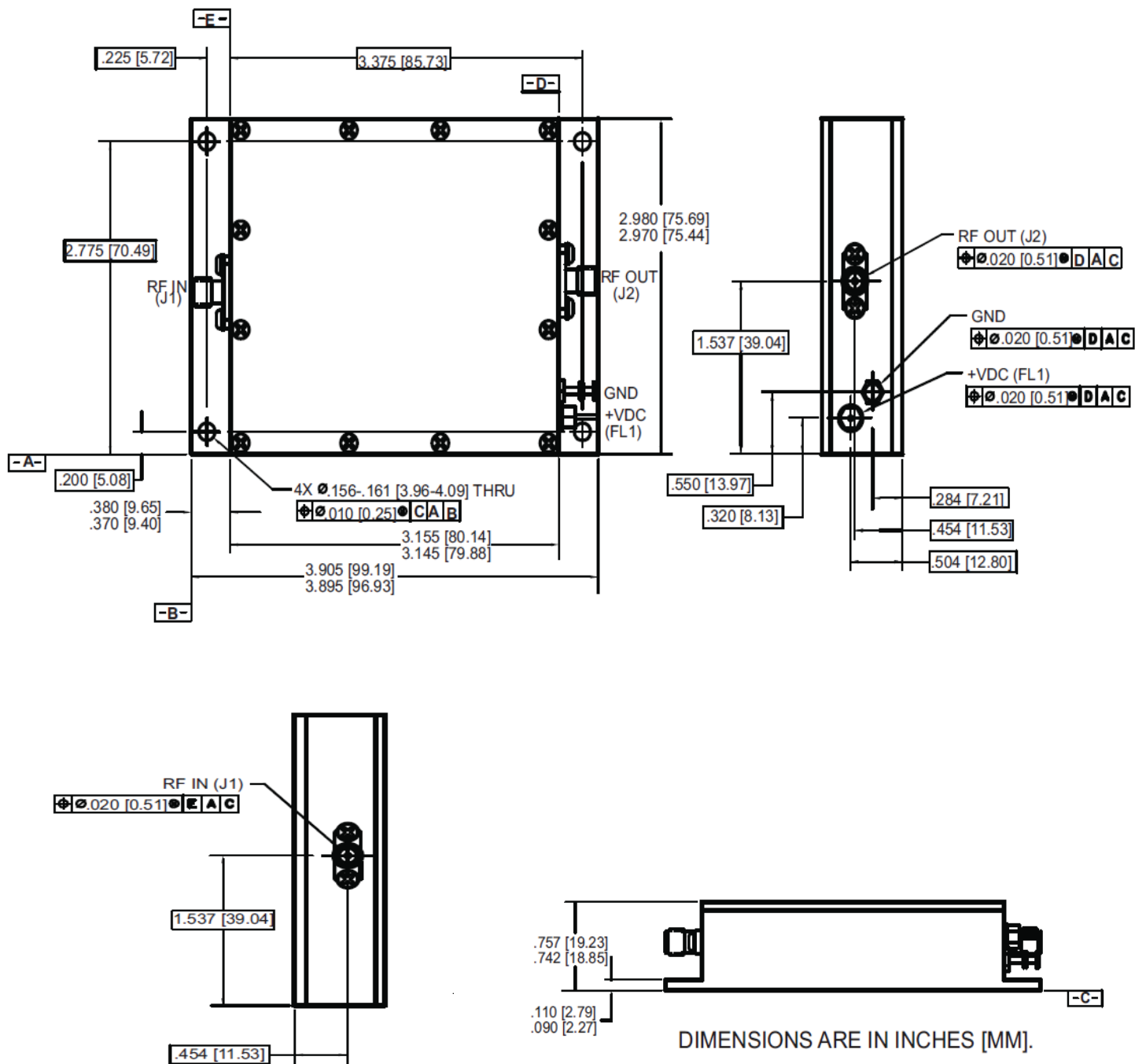
### Maximum (No Damage) Ratings

Storage Temperature	-65°C to +125°C
Operating Temperature (Case)	-40°C to +85°C
DC Voltage @ 25°C (Regulated)	+25 VDC
Input Drive @ 25°C (CW)*	+20 dBm

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## Outline Drawing



DIMENSIONS ARE IN INCHES [MM].