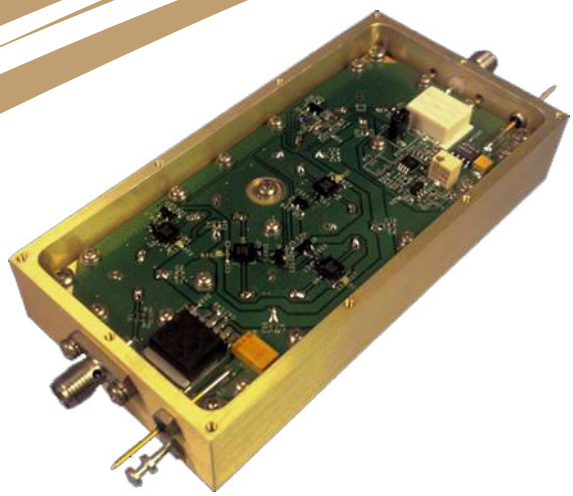
Automatic Gain Controlled Amplifier

500-800 MHz
Model BXMF1042



FEATURES

- Automatic Output Control
- Wide Bandwidth
- High RF Input Damage Protection
- Group Delay +/- 1 ns

The Model BXMF1042 allows the user to anticipate receiver power levels and automatically adjust the output power to a desired level. With optional gain stages from 25 to 40 dB, this modular family of Low Phase Noise AGCs can be used for multiple applications from 50 MHz to 2000 MHz. Designed for rugged military environments, these units can be customized with an optional time delay adjustment feature as well as a phase modulation compression to accommodate for peak power variations. These AGCs are also designed to minimize group delay with Group Delay performance of as low as +/-1 ns typical.

Parameter	Typical	Min. / Max.
Frequency Range	500-800 MHz	500-800 MHz
Nominal Output Power	0 dBm	0 dBm
Input Dynamic Range	-45 to 0 dBm	-45 to 0 dBm
Noise Figure	6 dB	7 dB
1 dB Compression Point	17 dBm	17 dBm
Aquisition Time (10% / 90% rise time)	250 µs	250 µs
Input VSWR	1.75:1	2.0:1
Output VSWR	1.75:1	2.0:1
Supply Voltage	+15 volts	+15 volts
Supply Current	1500 mA	1500 mA
Secondary Supply Voltage	+5 volts	+5 volts
Secondary Supply Current	100 mA	100 mA
Housing Size	4.00" L x 2.00" W x 0.780" H	
RF Connectors	Gold Plated Pins or SMA Female	
Operate Case Temp. (Min. / Max. Values)	-40°C to +85°C	

Maximum (No Damage) Ratings	
Storage Temperature	-65°C to +125°C
Operating Temperature (Case)	-40°C to +85°C
DC Voltage @ 25°C	+18 VDC / 8 VDC
Input Drive @ 25°C	+24 dBm

Rev 2.24.12

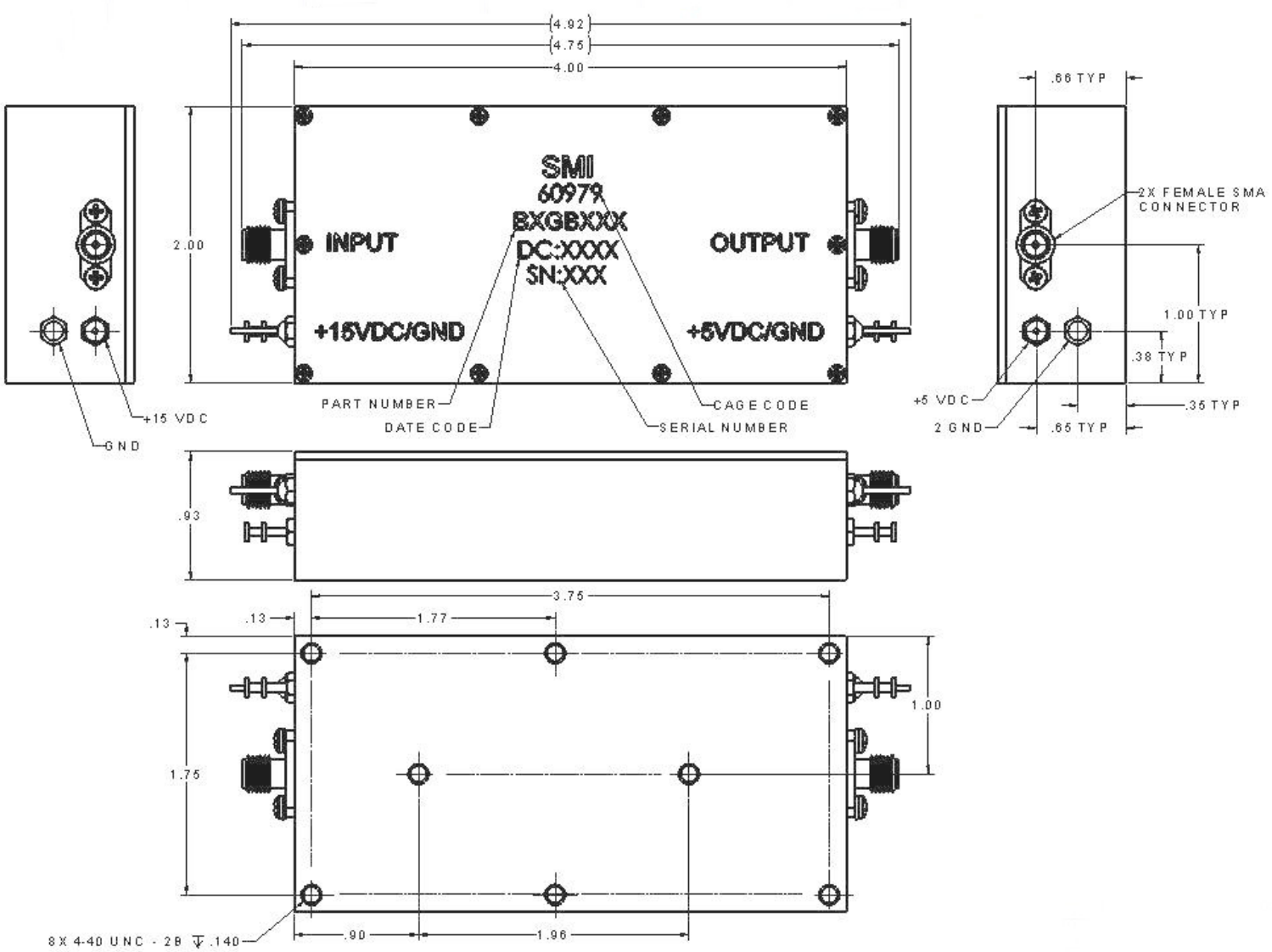
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Customization and Options

Products in this new AGC amplifier line can be customized with both an optional time delay adjustment feature, as well as a phase modulation compression feature to accommodate for peak power variations. For the full range of options, please contact sales at (888) 853-7531 or e-mail sales@apitech.com.

Outline Drawing



Rev 2.24.12