

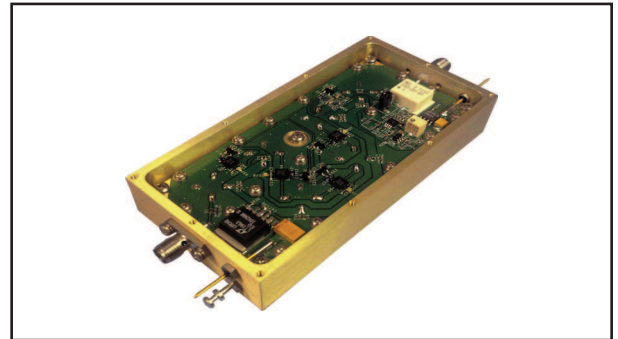
Automatic Gain Controlled Amplifier

1000 - 2000 MHz

Model BXMF1043

FEATURES

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



The Model BXMF1043 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	1000 - 2000 MHz	1000 - 2000 MHz
Nominal Output Power	0 dBm	0 dBm
Input Dynamic Range	-25 to 0 dBm	-
Noise Figure	7 dB	8 dB
1 dB Compression Point	+17 dBm	+17 dBm
Aquisition Time (10% / 90% rise time)	250 μ s	250 μ s
Input VSWR	1.75:1	2.0:1
Output VSWR	1.75:1	2.0:1
Supply Voltage	+15 volts	+15 volts
Supply Current	1200 mA	1200 mA
Secondary Supply Voltage	+5 volts	+5 volts
Secondary Supply Current	100 mA	100 mA
Revision: 7/24/2013		
Housing Size	4.00" L x 2.00" W x 0.780" H	
RF Connectors	SMA Female	
Operating Case Temp. (Min./Max. Values)	-30°C to +60°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

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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 please contact (888) 553-7531 or email sales@apitech.com.

Outline Drawing

