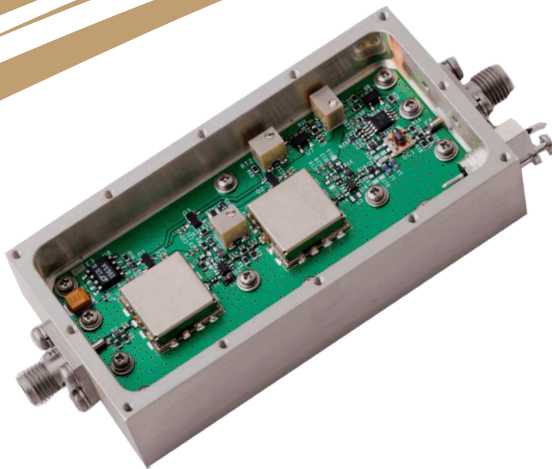


FEATURES

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



The Model BXMF1039 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	400-600 MHz	400-600 MHz
Nominal Output Power	-35 dBm	-35 dBm
Input Dynamic Range	-55 to 0 dBm	-55 to 0 dBm
Noise Figure	8 dB	11 dB
1 dB Compression Point	+13 dBm	+12 dBm
Aquisition Time (10% / 90% rise time)	Adjustable	50-2000 μ s
Input VSWR	1.75:1	2.0:1
Output VSWR	1.75:1	2.0:1
Group Delay	+/- 1 ns	-
Bias Voltage	+5 volts	+5 volts
Bias Current	125 mA	125 mA
Housing Size	3.00" L x 1.50" W x 0.780" H	
RF Connectors	Gold Plated Pins or SMA Female	
Operate Case Temp. (Min. / Max. Values)	-40°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	+8 VDC
Input Drive @ 25°C	+24 dBm