GAIN CONTROL AMPLIFIER
MGC0812G20

FEATURES

- Coverage From 0.5 to 18 GHz
- 10-20dB Of Gain Control 0-5VDC
- Small Signal Gain of 18-45dB
- Compact Thin-Film Construction
- High Frequency Stability&High Reliability
- Operating temperature:-55~+85˚C

APPLICATIONS

- Test Instrumentation
- Communication System
- Radar&Warfare system

ELECTRICAL SPECIFICATIONS@25˚C:

Parameter	Min	Typical	Max	Units
Frequency Range	8		12	GHz
Gain	40			dB
Gain Control Range	0		20	dB
Gain Flatness			±2	dB
Noise Figure@Min Gain Control			4	dB
Noise Figure@Max Gain Control			6	dB
Output Power 1dB@Min Gain Control	15			dBm
Output Power 1dB@Max Gain Control	12			dBm
VSWR Input/output			2:1	Ratio
Gain Contorl Voltage Range	0		+5	Volt
DC Power Supply		12		Volt
Current		200		mA

ENVIRONMENTAL RATINGS:

Parameter	Min	Typical	Max	Units
Max Input power			+20	dBm
Operating Temperature	-40		+85	˚C
Non-operating Temperature	-55		125	˚C
Relative humidity (non-condensing)		95		%
Altitude (MIL-STD-810F)	10000		30000	feet
Shock / Vibration (MIL-STD-810F)		Airbone		

MECHANICAL SPECIFICATIONS:

Parameter	Value	Limits	Units
Dimensions	40.7*16.8*8.1	Max	Millimeter
Weight	50	Max	gram
RF Connectors Input	SMA-F		
RF Connectors output	SMA-F		
Impedance	50		ohms

Note:miniature size,drop-in ,SMT and customized specification is also available

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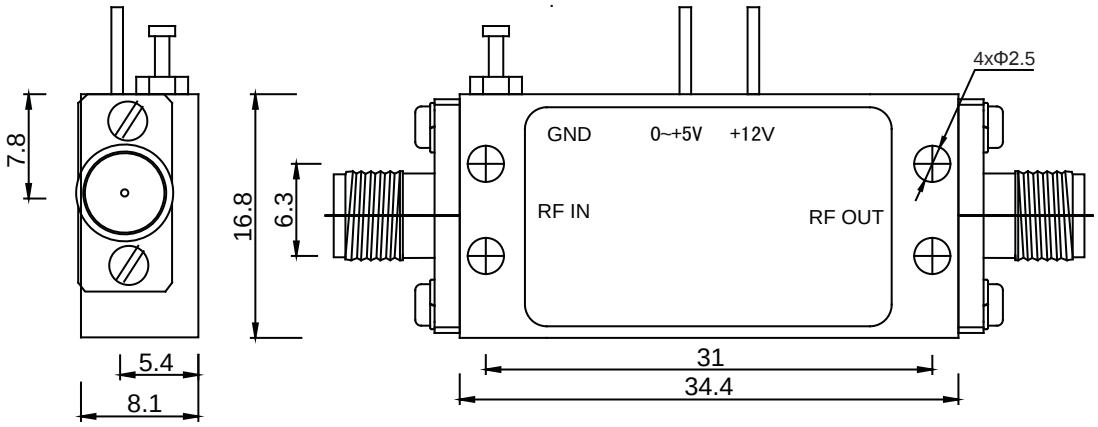
OUTLINE DRAWING(mm):



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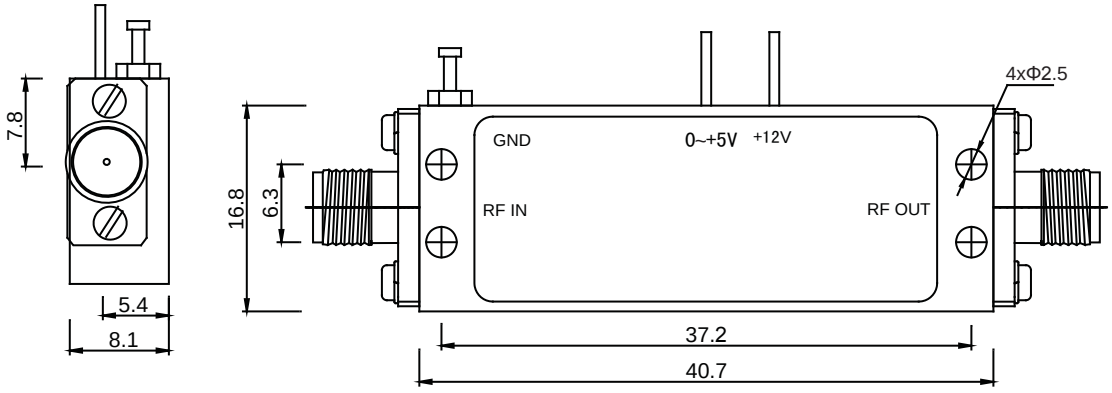

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