

CMC-0.03G3G-3830-S is a wideband medium power amplifier providing up to 30 dBm and a gain of 38 dB. The compact size and modularity makes it ideal for a wide range of applications.

Features:

- Frequency Range: 0.03 to 3.0 GHz
- P1dB: 30 dBm Typ
- Flat Small Signal Gain: 38 dB Typ
- Small size, low cost
- Heat sink is available

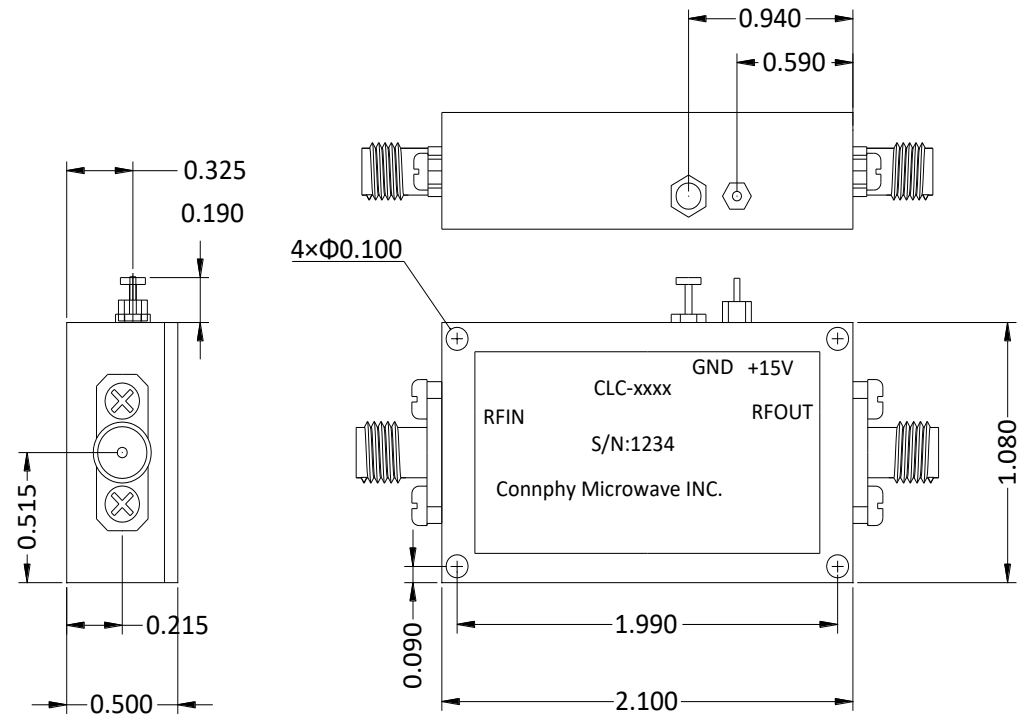
Specifications:


Frequency:	0.03- 3.0 GHz
Gain:	38 dB Typ, 35 dB Min
Gain Flatness:	±1.0 dB Typ , ±1.25 dB Max
Output P1dB:	30 dBm Typ , 29 dBm Min
Output IP3:	39 dBm Typ
VSWR Input:	1.6:1 Typ, 1.8:1 Max
VSWR Output:	1.6:1 Typ, 1.8:1 Max
Reverse Isolation:	45 dB Min
Non-Harmonic Spurious:	-60 dBc Max
DC Voltage:	+11.5 V to +13 V DC
DC Supply Current:	510 mA Typ
RF connectors:	SMA Female
RF Input Power:	+10 dBm Max

Environmental Ratings:

Temperature:	-40°C to +75 °C Operating
	-55 °C to +125 °C Non-Operating
Vibration:	MIL-STD-202F, Method 204D Cond. B
Altitude:	MIL-STD-202F, Method 105C Cond. B
Temperature Cycle:	MIL-STD-202F, Method 107D Cond. A

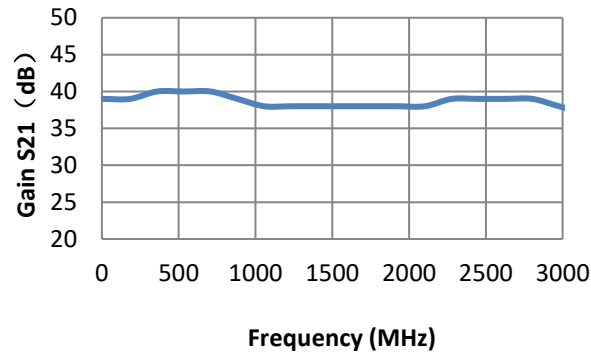
Mechanical Outline(Inches) :



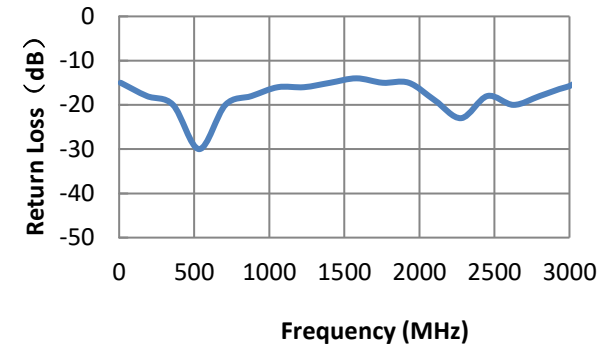
Medium Power Amplifier CMC-0.03G3G-3830-S			
DRAWN:	DWG NO.:	REV CODE: Rev.1.0	 www.connphy.com sales@connphy.com
CHECKRD:	DATE: 12/10/15	SHEET : 1 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	
			Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Typical Performance Data:

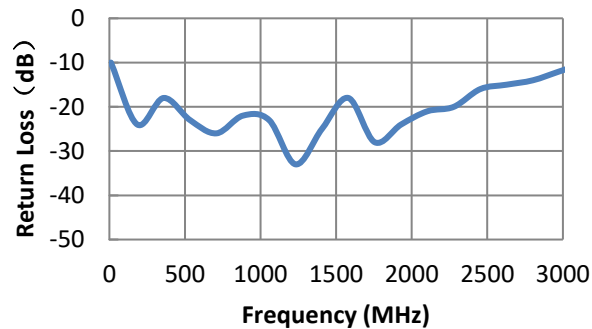
Gain S21



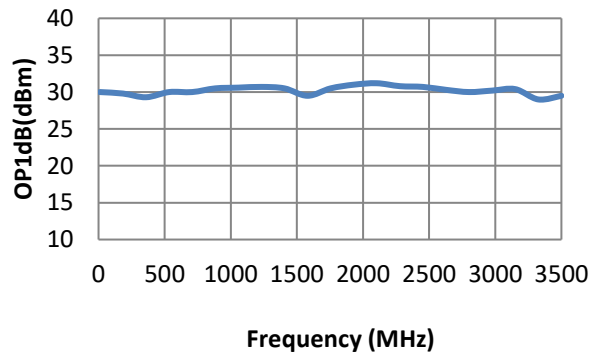
S11



S22



OP1dB



- Note: 1, Test data taken with case temperature of +23 °c.
 2, The device is static sensitive. Always follow ESD rules when working with the device.
 3, Must use heat sink if case temperature exceeds 50 °c.

Environmental Ratings:


Temperature: -40°C to +75 °C Operating
 -55 °C to +125 °C Non-Operating

Vibration: MIL-STD-202F, Method 204D Cond. B

Altitude: MIL-STD-202F, Method 105C Cond. B

Temperature Cycle: MIL-STD-202F, Method 107D Cond. A

Medium Power Amplifier CMC-0.03G3G-3830-S

DRAWN:	DWG NO.:	REV CODE: Rev.1.0	 www.connphy.com sales@connphy.com
CHECKRD:	DATE: 12/10/15	SHEET : 2 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	
			Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.