CMC-0.3G18G-3730-S is a wideband medium power amplifier providing up to 30 dBm and a gain of 37 dB. The compact size and modularity makes it ideal for a wide range of applications.

Features:

- Frequency Range: 0.3 to 18 GHz
- P1dB: 30.5 dBm Typ
- Flat Small Signal Gain: 37 dB Typ
- Small size, low cost
- Heat sink is available

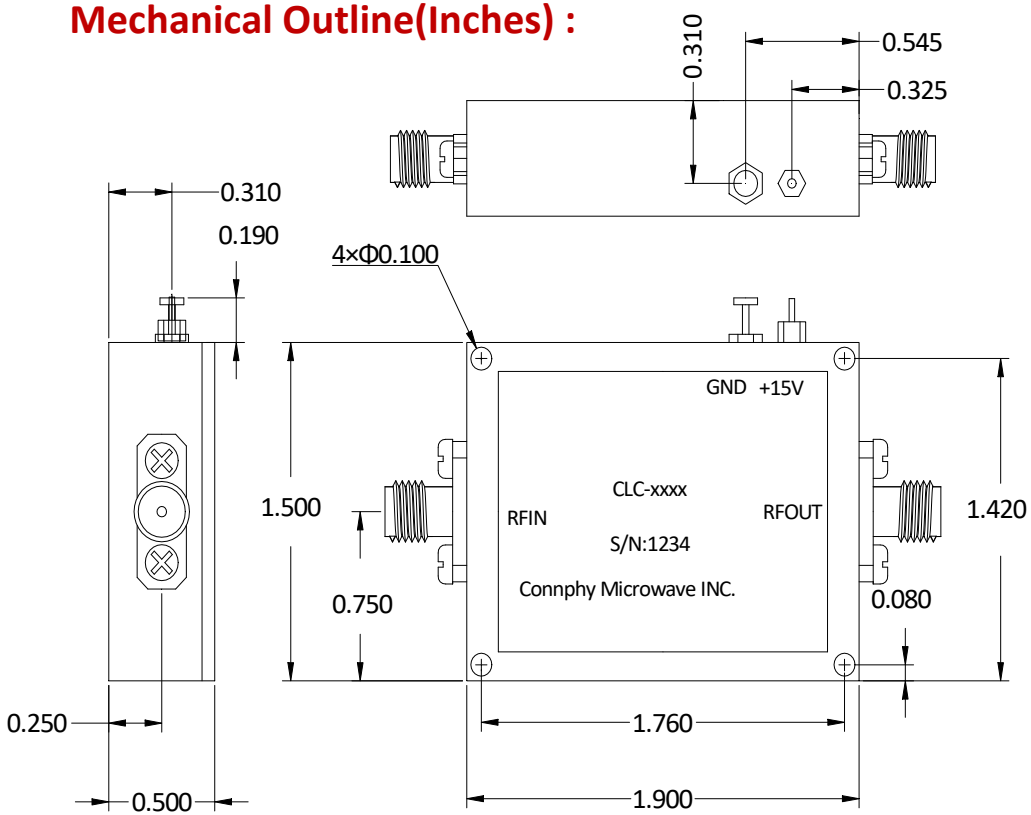
Specifications:

Frequency:	0.3-18 GHz
Gain:	37 dB Typ, 34 dB Min
Gain Flatness:	±2.5 dB Max
Noise Figure@2-18GHz:	2.5 dB Typ, 3.5 dB Max
Output P1dB:	30.5 dBm Typ, 29.5 dBm Min
Output IP3 :	42 dBm Typ
Non-Harmonic Spurious:	-60 dBc Typ
Reverse Isolation:	60 dB Typ
VSWR Input:	1.8:1 Typ, 2.2:1 Max
VSWR Output:	1.8:1 Typ, 2.2:1 Max
DC Voltage:	+14.5 V to +18 V DC
DC Supply Current:	800 mA Typ
RF Connector:	SMA female

Environmental Ratings:

Temperature:	-40ºC to +75 ºC Operating
	-55 ºC to +125 ºC 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) :

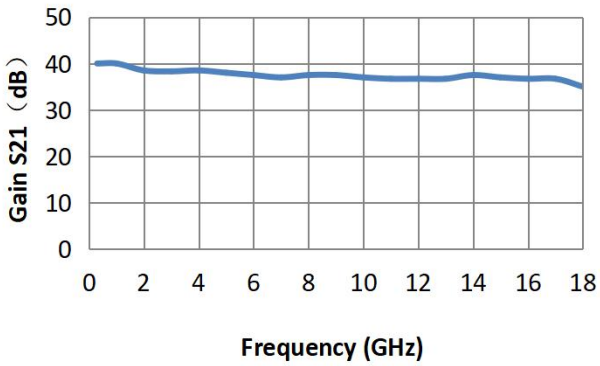


Medium Power Amplifier
CMC-0.3G18G-3730-S

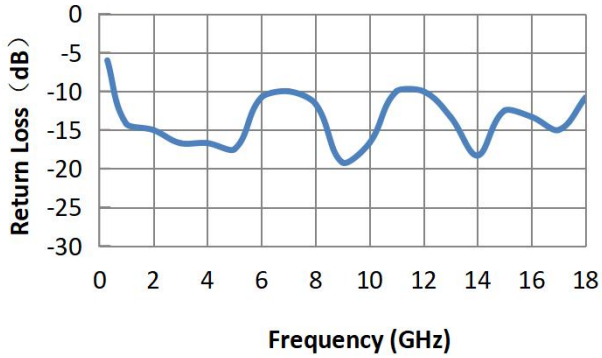
DRAWN:	DWG NO.:	REV CODE: Rev.1.0	CONNPHY Microwave Inc. www.connphy.com sales@connphy.com
CHECKRD:	DATE: 12/10/15	SHEET : 1 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Typical Performance Data:

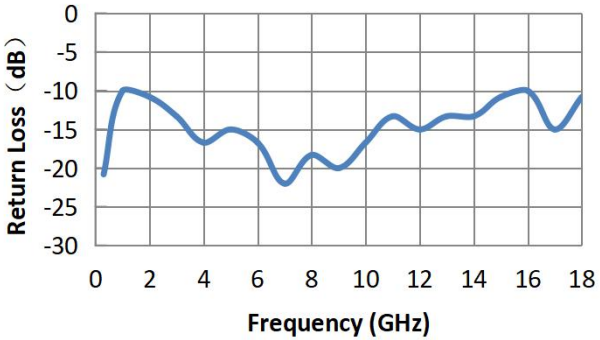
Gain S21



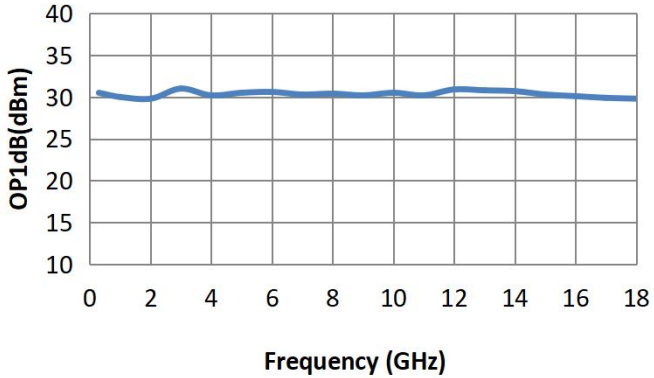
S11



S22



OP1dB



Note: Test data taken with case temperature of +23 ºC

Environmental Ratings:

Temperature:	-40ºC to +75 ºC Operating
	-55 ºC to +125 ºC 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

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CHECKRD:	DATE: 12/10/15	SHEET : 2 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.