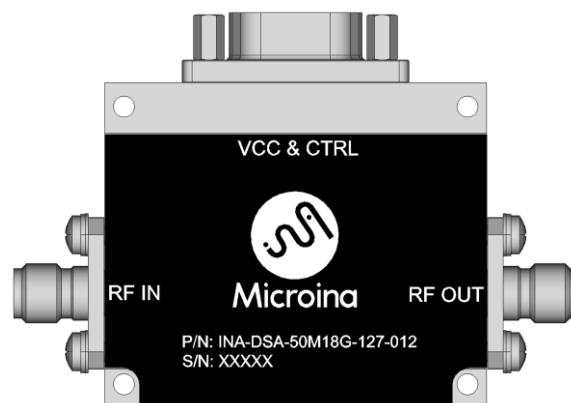


FEATURES:

- Wideband Operation (50 MHz- 18 GHz)
- 127.875 dB Attenuation Range
- 0.125 dB Attenuation Step Size
- 10-Bit TTL Control
- Field Replacable SMA Connectors
- Humidity Protected Mechanical Package


ELECTRICAL SPECIFICATIONS:

Parameter	Min.	Typ.	Max.	Units
Operating Frequency	50		18000	MHz
Attenuation Range		127.875		dB
Attenuation Step Size		0.125		dB
Attenuation Flatness		TBD		dB
Insertion Loss		TBD		dB
Input VSWR (All States)		2:1		
Output VSWR (All States)		2:1		
Input Operating Power (CW)			23	dBm
Operating DC Voltage	+4	+5	+5.5	Volts
Operating DC Current			10	mA
Control Inputs (C1, C2, ..., C8)	0V-0.8V: Low 1.2V-3.3V: High			

*Electrical specifications are given at 25°C.

ABSOLUTE MAXIMUM RATING:

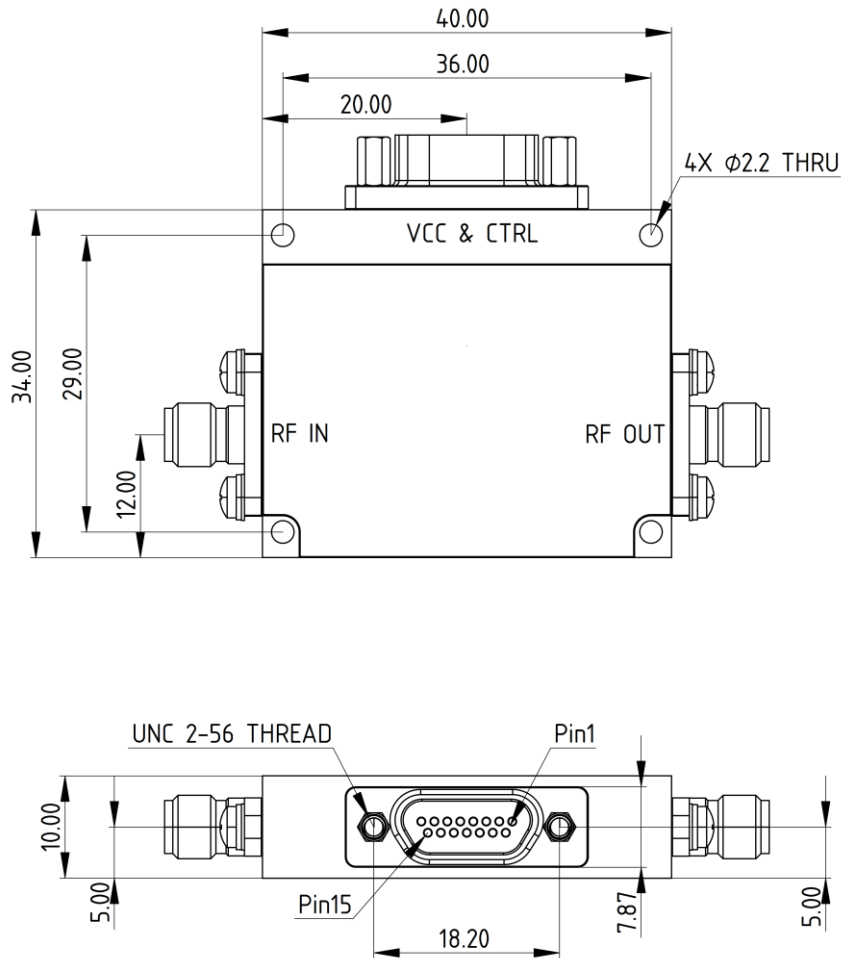
Parameter	Min.	Typ.	Max.	Units
DC Voltage			+5.5	Volts
RF Input Power (CW)			+24	dBm
Operating Case Temperature	-40		+85	°C
Storage Temperature	-55		+125	°C

MECHANICAL SPECIFICATIONS:

Parameter	Value	Units
Dimensions (L x W x H)	40.0 x 34.0 x 10.0	mm
Weight	TBD	gr
RF Connector, Input	SMA, Female	
RF Connector, Output	SMA, Female	
DC & Control Connector	Micro-D 15 Position Female	
Mechanical Housing	Nickel Plated Aluminum	

MECHANICAL OUTLINE:

- All dimensions are in mm
- Tolerances: +/- 0.2 mm



Pin #	Pin Name	Note
1	+5V	Supply Voltage
2	GND	Ground
3	C1	0.125 dB Control
4	C2	0.25 dB Control
5	C3	0.5 dB Control
6	C4	1 dB Control
7	C5	2 dB Control
8	C6	4 dB Control
9	C7	8 dB Control
10	C8	16 dB Control
11	C9	32 dB Control
12	C10	64 dB Control
13	N/C	Not Connected
14	N/C	Not Connected
15	N/C	Not Connected

TRUTH TABLE:

Control Input TTL										Attenuation State
C10	C9	C8	C7	C6	C5	C4	C3	C2	C1	
0	0	0	0	0	0	0	0	0	0	Reference IL
0	0	0	0	0	0	0	0	0	1	0.125 dB
0	0	0	0	0	0	0	0	1	0	0.25 dB
0	0	0	0	0	0	0	1	0	0	0.5 dB
0	0	0	0	0	0	1	0	0	0	1 dB
0	0	0	0	0	1	0	0	0	0	2 dB
0	0	0	0	1	0	0	0	0	0	4 dB
0	0	0	1	0	0	0	0	0	0	8 dB
0	0	1	0	0	0	0	0	0	0	16 dB
0	1	0	0	0	0	0	0	0	0	32 dB
1	0	0	0	0	0	0	0	0	0	64 dB
1	1	1	1	1	1	1	1	1	1	127.875 dB



REVISION HISTORY:

Rev. No.	Date	Description
P1	18-May-2026	Preliminary Release