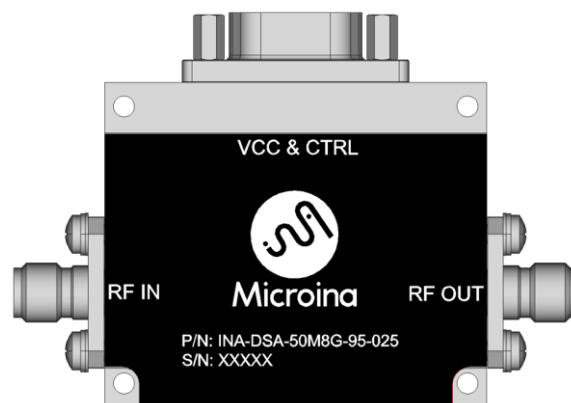


FEATURES:

- Wideband Operation (50 MHz- 8 GHz)
- 95 dB Attenuation Range
- 0.25 dB Attenuation Step Size
- 9-Bit TTL Control
- Field Replacable SMA Connectors
- Humidity Protected Mechanical Package


ELECTRICAL SPECIFICATIONS:

Parameter	Min.	Typ.	Max.	Units
Operating Frequency	50		8000	MHz
Attenuation Range		95		dB
Attenuation Step Size		0.25		dB
Attenuation Flatness		TBD		dB
Insertion Loss (10 MHz- 2 GHz)		4		dB
Insertion Loss (2 GHz - 6 GHz)		6		dB
Insertion Loss (6 GHz - 8 GHz)		8		dB
Input VSWR (All States)		1.5:1		
Output VSWR (All States)		1.5:1		
Input CW Operating Power (50 MHz – 8 GHz)			28	dBm
Operating DC Voltage	+4	+5	+5.5	Volts
Operating DC Current			10	mA
Control Inputs (C1, C2, ..., C9)	0V-0.6V: Low 1.2V-3.6V: High			

*Electrical specifications are given at 25°C.

ABSOLUTE MAXIMUM RATING:

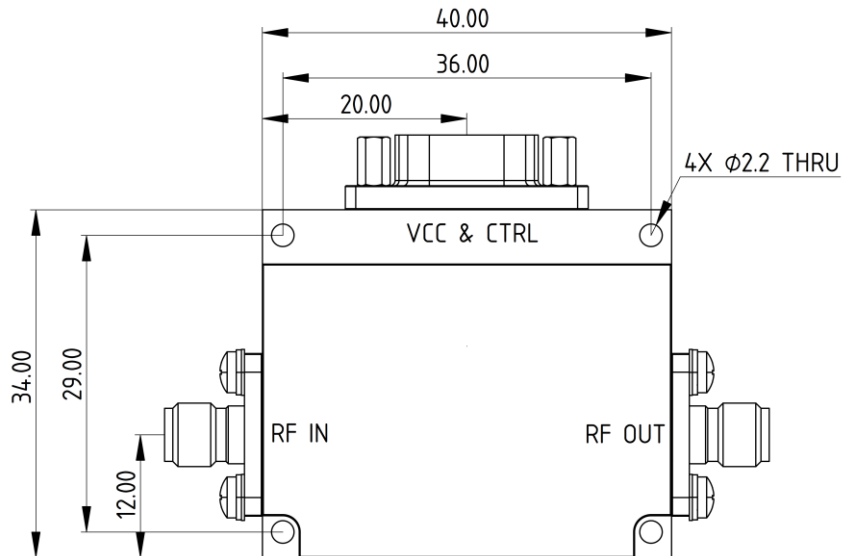
Parameter	Min.	Typ.	Max.	Units
DC Voltage			+5.5	Volts
RF Input Power (CW)			+28	dBm
Operating Case Temperature	-40		+85	°C
Storage Temperature	-55		+125	°C

MECHANICAL SPECIFICATIONS:

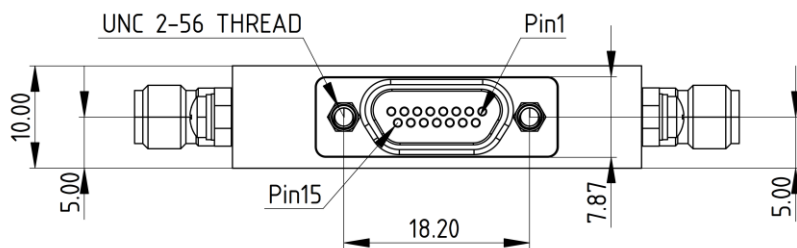
Parameter	Value	Units
Dimensions (L x W x H)	40.0 x 34.0 x 10.0	mm
Weight	TBD	gr
RF Connector, Input	SMA, Female	
RF Connector, Output	SMA, Female	
DC & Control Connector	Micro-D 15 Position Female	
Mechanical Housing	Nickel Plated Aluminum	

MECHANICAL OUTLINE:

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



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


TRUTH TABLE:

Control Input TTL									Attenuation State
C9	C8	C7	C6	C5	C4	C3	C2	C1	
0	0	0	0	0	0	0	0	0	Reference IL
0	0	0	0	0	0	0	0	1	0.25 dB
0	0	0	0	0	0	0	1	0	0.5 dB
0	0	0	0	0	0	1	0	0	1 dB
0	0	0	0	0	1	0	0	0	2 dB
0	0	0	0	1	0	0	0	0	4 dB
0	0	0	1	0	0	0	0	0	8 dB
0	0	1	0	0	0	0	0	0	16 dB
0	1	0	0	0	0	0	0	0	32 dB
1	0	0	0	0	0	0	0	0	32 dB
1	1	1	1	1	1	1	1	1	95 dB

REVISION HISTORY:

Rev. No.	Date	Description
P1	13-May-2026	Preliminary Release