

Typical Applications

- Fixed Wireless & Microwave Radio below 12 GHz
- Military, Space & Satellite Communications
- Test and Measurement Equipment

Main Features

X-band Absorptive Digital Control Attenuator
 High Attenuator Range : 63 dB
 High Power Handle Capability
 SMA Connectorized

Electrical Specifications

Parameter	Unit	Specification
Frequency Range	GHz	8 – 12
Insertion Loss	dB	5 typ. 6 max
Attenuation range	dB	63 typ.
Attenuation Step	dB	1 typ.
VSWR Input/Output		1.6 : 1 max (All Attenuation States)
Flatness	dB	+1 max
Switching Time	ns	50 typ.
Power Handling	W	1 max
In/Out Impedance	Ohm	50 typ.
Working Voltage	V/mA	+5 / 240 -5 / 240
Control		TTL : "1" = +5V, "0" = 0V
Replicability	dB	< 0.2 over 10.000 cycles

Products and Product Information are Subject to Change Without Notice

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Revision : 01

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Environment

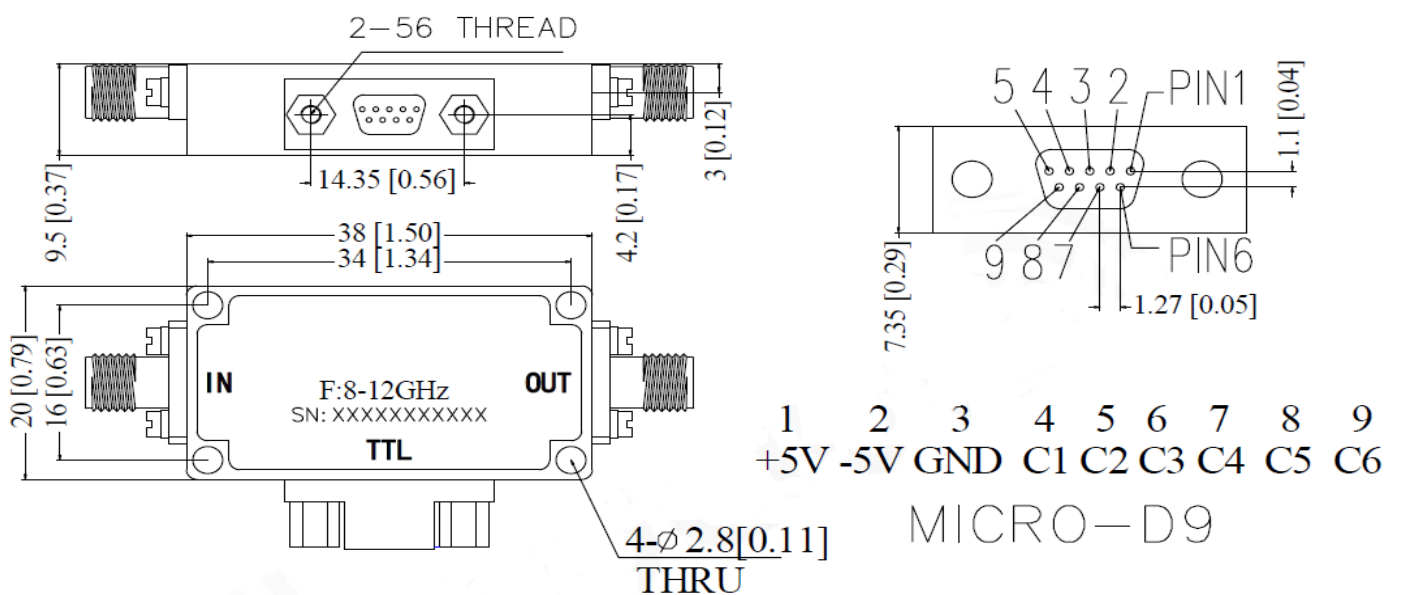
Parameter	Unit	Specification
Operating Temperature	°C	-45°C to +85°C

Mechanical Specifications

Parameter	Unit	Specification
RF connectors		SMA-Female
Material		Aluminum
Finish		Gold Plated
weight	g	100

Outline drawing

All dimensions in mm [inches]



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Truth Table

Control Voltage Input						Attenuation state
C6	C5	C4	C3	C2	C1	
1	1	1	1	1	1	Reference IL
1	1	1	1	1	0	1dB
1	1	1	1	0	1	2dB
1	1	1	0	1	1	4dB
1	1	0	1	1	1	8dB
1	0	1	1	1	1	16dB
0	1	1	1	1	1	32dB
0	0	0	0	0	0	63dB