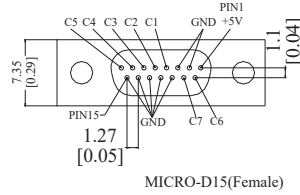
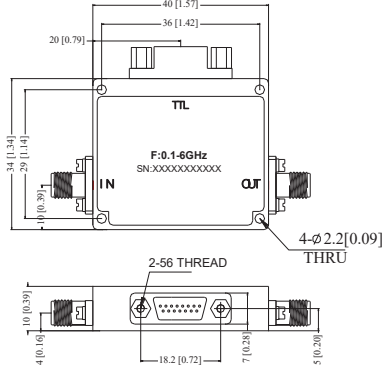


## Absorptive Digital Control Attenuator 0.1-6GHz



**Truth Table**

Control Voltage Input							Attenuation State
C7	C6	C5	C4	C3	C2	C1	
0	0	0	0	0	0	0	Reference IL
0	0	0	0	0	0	1	0.5dB
0	0	0	0	0	0	1	1dB
0	0	0	0	1	0	0	2dB
0	0	0	1	0	0	0	4dB
0	0	1	0	0	0	0	8dB
0	1	0	0	0	0	0	16dB
1	0	0	0	0	0	0	32dB
1	1	1	1	1	1	1	63.5dB

**All Dimensions in mm**

Parameters	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Units
Frequency Range	0.1		0.2	0.2		2.5	2.5		6	GHz
Attenuation Range		60				63.5			63.5	dB
Attenuation Flatness: (Referenced to Insertion Loss)		±0.5			±0.8			±1.0		dB
Control Bits	7									Bit
Control Step size		0.5			0.5			0.5		dB
Insertion Loss		2.5	3.0		3.5	4.5		5.5	7.0	dB
Insertion Loss Temperature Coefficient		0.01				0.01		0.01		dB/ °C
Input VSWR (All States)		1.5	1.8		1.3	1.5		1.3	1.5	: 1
Output VSWR (All States)		1.5	1.8		1.3	1.5		1.3	1.5	: 1
Input 0.1 dB Compression Point		30			30			30		dBm
IP3 Input		54			54			54		dBm
Switching Speed 50% CTRL* to 90% or 10%	150									ns
Weight	1.06									ounces
Impedance	50									Ω
Bias Current (+5V)	20									mA
Input / Output Connectors	SMA - Female									
Interface and Control Connector	MICRO-D15(Female)									
Finish	Gold Plated									
Material	Aluminum									
Sealing	Hermetically Sealed (Optional)									

Absolute Maximum Ratings	
Biasing	+5V±10%
TTL Control Voltage	0~0.8V / 2.8~5V
RF Input power	+25dBm

Environmental Specifications	
Operational Temperature	-45°C~+85°C
Storage Temperature	-55°C~+125°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40°c
Shock	20G for 11msec half sine wave,3 axis both directions