

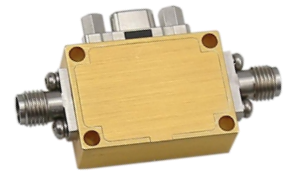
# 0.2-6GHz Digital Attenuator

P/N: MZDT600206GA1B



## Description:

The Attenuator is a broadband digital attenuator with a typical Loss insertion of 4 dB and a high attenuation range of 63dB across the frequency range of 0.2 to 6 GHz. The attenuation step 1dB with 6bit control. Accept customization according to different needs.



- Radar Systems
- Communication Systems
- Receivers Systems

## Electrical Specifications ( +25°C ) :

Parameter	Min.	Typ.	Max.	Units
Frequency Range		0.2-6		GHz
Insertion Loss		4	5.5	dB
Attenuation Range	63			dB
Input VSWR		1.5	1.8	-
Output VSWR		1.5	1.8	-
Switch Speed			1	us
Attenuation Step		1		dB
Control Bit TTL		6		Bit
Attenuation Accuracy		1-7dB $\pm$ 0.5dB;7-11dB $\pm$ 0.7dB; 11-30dB $\pm$ 1.0dB; 31-63 $\pm$ 1.5dB		dB
Attenuation Flatness		1-7dB $\pm$ 0.5dB;7-11dB $\pm$ 1.0dB; 11-30dB $\pm$ 2.0dB; 31-63 $\pm$ 2.5dB		dB
Input Max Power			20	dBm
DC Power Supply		+5V@50mA		mA
Impedance		50		$\Omega$
Input Output Connector		SMA-K/SMA-K		
Material		Aluminium\Gold Painting		
Weight		20g		
Package Sealing		Epoxy Sealing (Standard) Hermetically Seal(Option )		

## Environmental Specifications:

- ※ Operational Temperature -25°C~+85°C
- ※ Storage Temperature -55°C~+125°C



OBSERVE  
PRECAUTIONS ELECTROSTATIC  
SENSITIVE DEVICES

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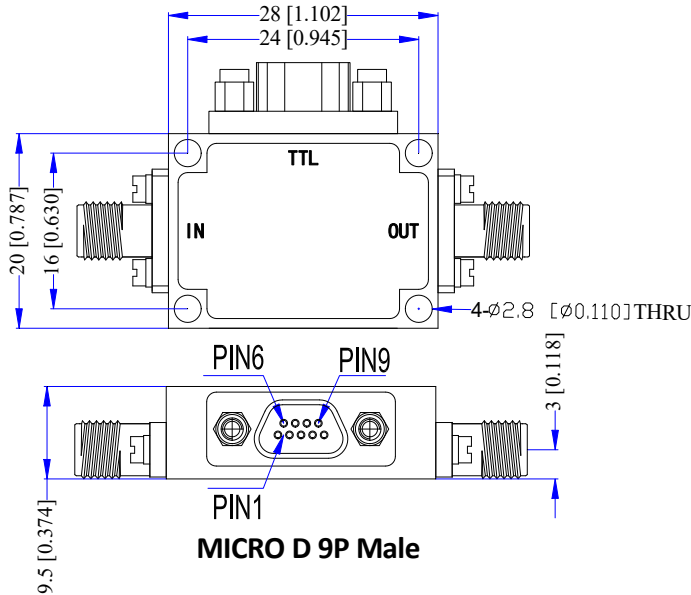
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## ■ Outline Drawing

All Dimensions in mm (inches) Tolerance  $\pm 0.25$  (0.01)



Control Voltage Input						Attenuation state
C6	C5	C4	C3	C2	C1	
0	0	0	0	0	0	Reference IL
0	0	0	0	0	1	1dB
0	0	0	0	1	0	2dB
0	0	0	1	0	0	4dB
0	0	1	0	0	0	8dB
0	1	0	0	0	0	16dB
1	0	0	0	0	0	32dB
1	1	1	1	1	1	63dB
Low(0)=0 to 0.8Vdc						High(1)= 2.0 to +5.0Vdc

## ■ MICRO D 9P Male Define

1	2	3	4	5	6	7	8	9
+5v	GND	NC	C1	C2	C3	C4	C5	C6

### NOTE:

1. The product is designed to meet environmental ratings but not tested. If you need to test environmental condition, please contact our sales department.
2. Miczen technologies co., Ltd. reserves the right to change the above information without notice.

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