

# MODEL H1DT5264001

## 26-40GHz Digital Control Attenuator



Note: The photo is for illustration purposes only. Please refer to outline drawing

### ■ Features

- Ultra Wide Band
- Low Insertion Loss
- High Attenuator Range
- High Attenuator Accuracy

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

### □ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	26-40			GHz
Insertion Loss		5	7	dB
Attenuation Range	31			dB
Input VSWR		1.5	2.5	
Output VSWR		1.5	2.5	
Switch Speed			100	ns
Attenuation Step	1			dB
Control Bit TTL	5			Bit
Attenuation Accuracy	1-7dB $\pm 0.5$ dB; 7-11dB $\pm 1$ dB; 11-31dB $\pm 1.5$ dB;			dB
Attenuation Flatness	1-7dB $\pm 0.5$ dB; 7-11dB $\pm 1.0$ dB; 11-30dB $\pm 1.5$ dB			dB
Input Max Power(no damage)			30	dBm
DC Power Supply	+/-5V@50mA,			mA
Impedance	50			$\Omega$
Input Output Connector	2.92-K			
Material	Aluminium\Gold Painting			
Weight	50g			
Package Sealing	Epoxy Sealing (Standard) Hermetically Seal(Optional )			

### Environmental Conditions

<b>Operational Temperature</b>	-45°C~+85°C	<b>Vibration</b>	25g rms (15 degree 2KHz) endurance, 1 hour per axis
<b>Storage Temperature</b>	-55°C~+125°C	<b>Shock</b>	20G for 11msc half sin wave, 3 axis both directions
<b>Executive Standard</b>	MIL-STD-810G	<b>Humidity</b>	100% RH at 35c, 95%RH at 40°C

### Absolute Maximum Ratings

<b>Supply Bias Voltage</b>	± 10%V
<b>RF INPUT POWER</b>	30dBm
<b>ESD sensitivity (HBm)</b>	Class 0, passed 150V

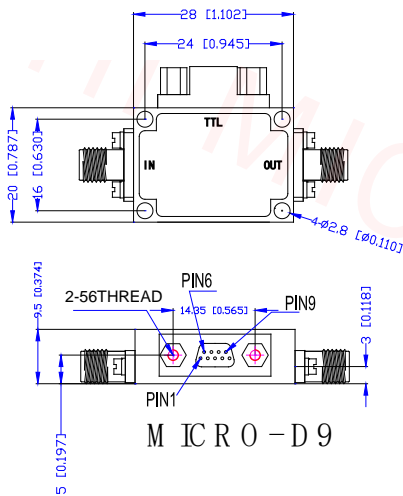


OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES



### Outline Drawing

All Dimensions in mm ( inches ) Tolerance ±0.25 ( 0.01 )



Control Voltage Input					Attenuation state
C5	C4	C3	C2	C1	
0	0	0	0	0	Reference IL
0	0	0	0	1	1dB
0	0	0	1	0	2dB
0	0	1	0	0	4dB
0	1	0	0	0	8dB
1	0	0	0	0	16dB
1	1	1	1	1	31dB

#### MICRO-D9 Female Define

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