MODEL HIDT80204H25

2-4GHz Digital 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
- Receiving Systems

Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	2-4			GHz
Insertion Loss		1.2	2.0	dB
Attenuation Range	60			dB
Input VSWR		1.5	2.0	-
Output VSWR		1.5	2.0	-
Switch Speed		1		us
Attenuation Step	0.25			dB
Control Bit TTL	8			Bit
Attenuation Accuracy	0-15dB ±0.3dB;16-30dB ±1dB;31-63dB ±1.5dB			dB
Attenuation Flatness	0-15dB ±0.5dB;16-30dB ±1.5dB;31-63dB ±2.5dB			dB
Input Max Power(no damage)			30	dBm
DC Power Supply	+12V@150mA, -12V @85mA			mA
Impedance	50			Ω
Input Output Connector	SMA-K			
Material	Aluminium\Gold Painting			
Weight	50g			
Package Sealing	Epoxy Sealing (Standard) Hermetically Seal(Option)			

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Environmental Conditions

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

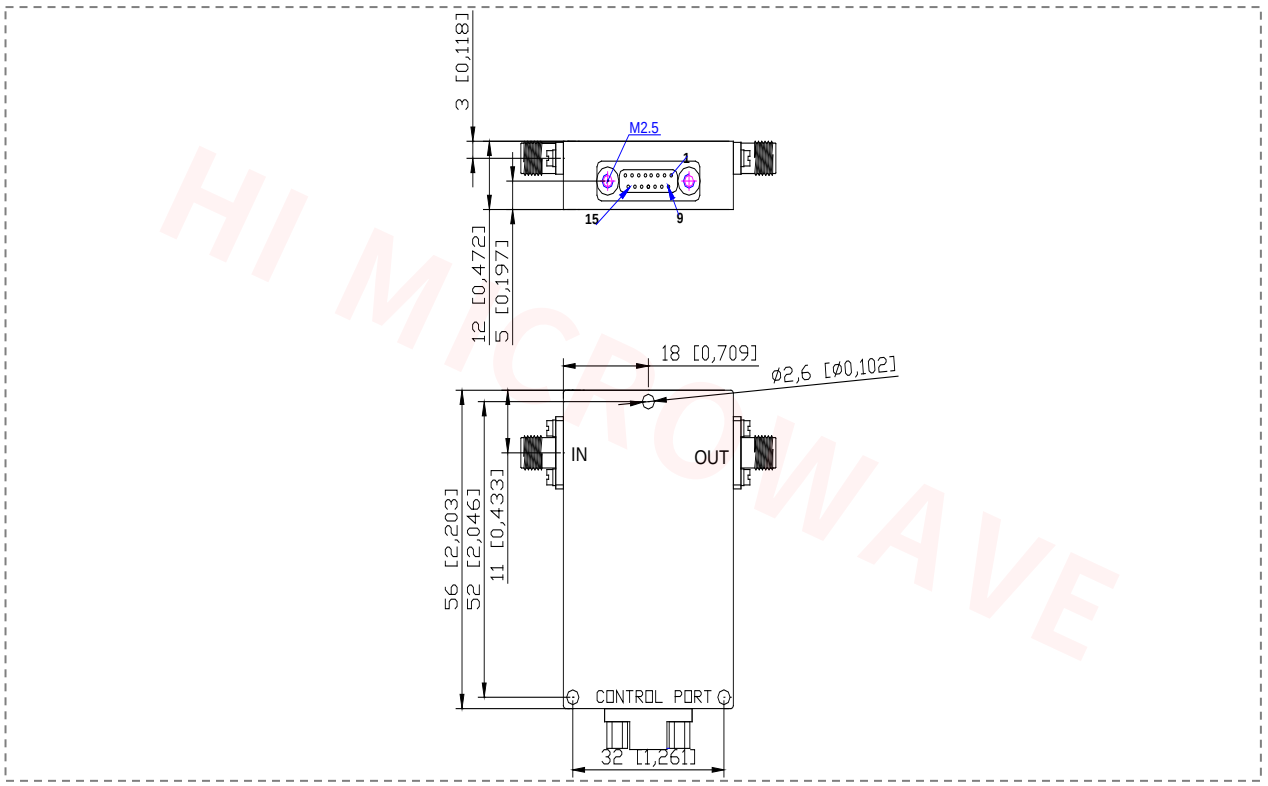
Absolute Maximum Ratings

Drain Bias Voltage	±10%V
RF Input Power	30dBm
ESD sensitivity (HBm)	Class 0, passed 150V

OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Outline Drawing

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



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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

MICRO-D15 Female Define

1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
+12V	-12V	GND	C1	C2	C3	C4	C5	C6	C7	C8	NC	NC	NC	NC

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■ Performance Plot