



# MODEL HISPDTA4060

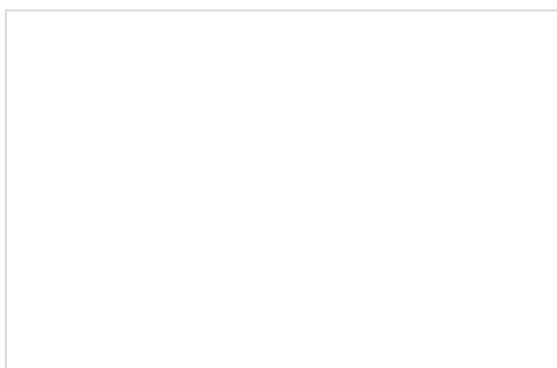
## 40-60GHz Broadband PIN Switch

### ■ Features

- Ultra Wide Band: 40-60GHz
- Low Insertion Loss: 3dB
- High Isolation
- Switch Type: Absorption

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems



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

### □ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range	40-60			GHz
Insertion Loss		3.0		dB
Isolation		30		dB
Input VSWR		1.5	2.5	-
Output VSWR		1.5	2.5	-
Commutation time		50	100	ns
Power Handling (operational)			0.25	W
DC Current (Vcc=+5V/-5V)		50/50		mA
Control Logic TTL	0/+5			v
Impedance	50			$\Omega$
Input Output Connector	1.85			
Material	Aluminium/Gold Painting			
Weight	50g			
Package Sealing	Standard sealing			

### Environmental Conditions

Operational Temperature	-45°C~+85°C	Vibration	25g rms (15 degree 2KHz) endurance, 2 hour per axis
Storage Temperature	-55°C~+125°C	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°C

### Absolute Maximum Ratings

Supply Bias Voltage	+/-10%
RF INPUT POWER	0.25W
ESD sensitivity (HBm)	Class 0, passed 150V

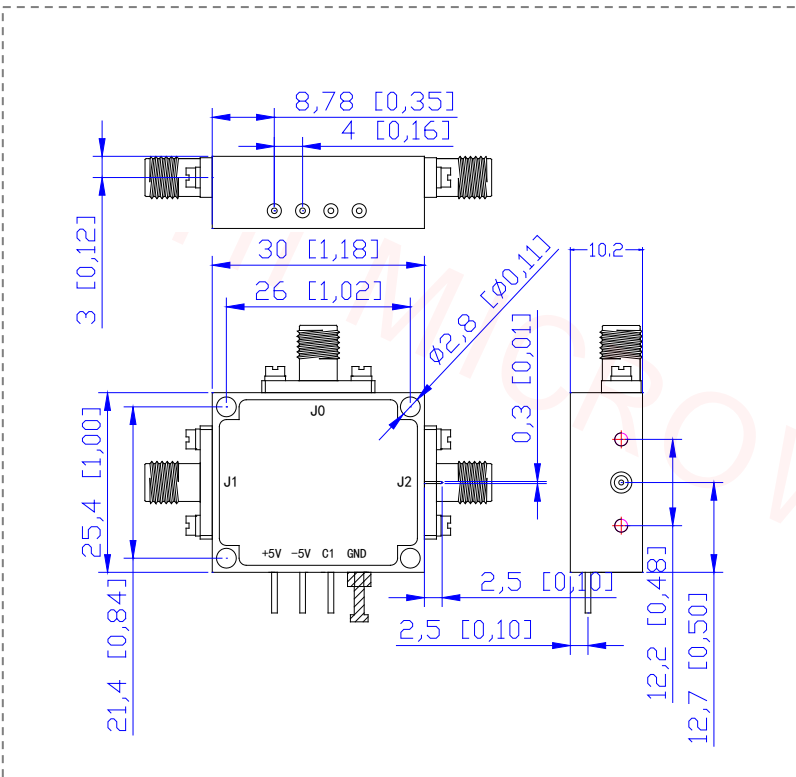


OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES



### Outline Drawing

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



TTL Control Voltages & VDD	
Stage	Bias Condition
VDD	+5V ( $\pm 10\%$ )
VEE	-5V ( $\pm 10\%$ )
Low	0 to 0.8Vdc
High	2.0 to +5.0Vdc

Truth Table	
Control TTL Input	Signal Path State
C1	
0	J0-J1
1	J0-J2