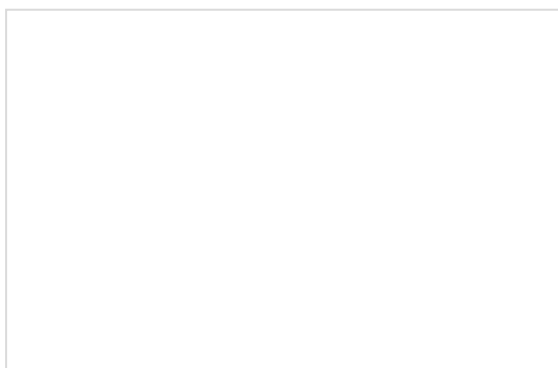




MODEL HISPSTA0220

2-20GHz Broadband PIN Power Switch



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

■ Features

- Ultra Wide Band: 2-20GHz
- Low Insertion Loss: 3dB
- Power Handling : 2W
- Switch Type: Absorption

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min.	Typ.	Max.	Units
Frequency Range	2-20			GHz
Insertion Loss		3.0	4.0	dB
Loss Variation Over Temperature		0.003		dB/°C
Isolation@2-16GHz	60	70		dB
Isolation@16-20GHz	50	55		dB
Input VSWR		1.5	2.0	-
Output VSWR		1.5	2.0	-
Switch Speed		50	100	ns
Power Handling (operational)			1	W
IIP3	50	55		dBm
DC Current (Vcc=+/-5V)		50/40		mA
Control Logic TTL	0/+5			v
Impedance	50			Ω
Input/Output Connector	SMA-FEMALE/SMA-FEMALE			
Material	Aluminium			
Finishing	Nickel Plated			
Weight	50g			
Package Sealing	Epoxy Sealing (Standard)			

Environmental Conditions

Operational Temperature	-45°C~+85°C	Vibration	25g rms (15 degree 2KHz) endurance, 1 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	+/-5%
RF INPUT POWER	2W
ESD sensitivity (HBM)	Class 0, passed 150V

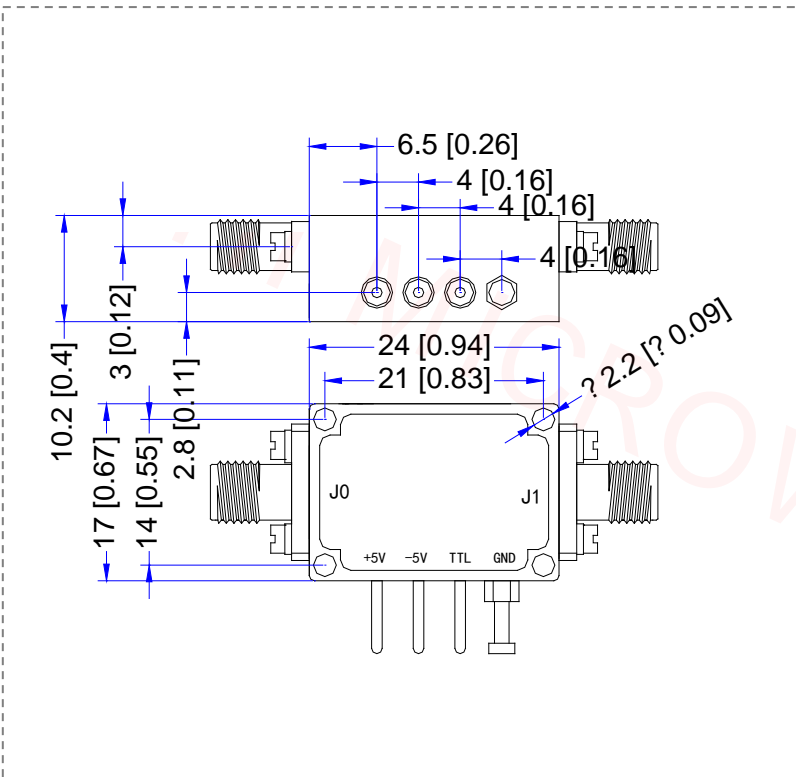


OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES



Outline Drawing

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



TTL Control Voltages & VDD	
Stage	Bias Condition
VDD	+5V (±5%)
Low	0 to 0.8Vdc
High	2.0 to +5.0Vdc

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