

MODEL HISPDTR2730

27-30GHz Broadband PIN Switch



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

■ Features

- Ultra Wide Band: 0.5-6GHz
- Low Insertion Loss: 1dB
- Power Handling : 2W
- Switch Type: Reflection

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

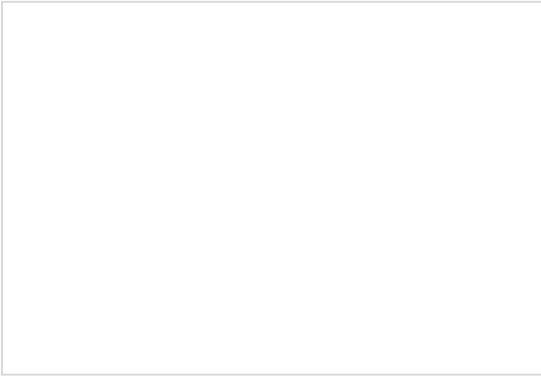
□ Electrical Specifications

Parameter	Min.	Typ.	Max	Units
Frequency Range		0.5-6		GHz
Insertion Loss		0.8	1	dB
Loss Variation Over Temperature		0.003		dB/°C
Isolation	60	65		dB
Input VSWR		1.5	1.8	-
Output VSWR		1.5	1.8	-
Switch Speed		50	100	ns
Power Handling (operational)			1	W
IIP3	50	55		dBm
DC Current (Vcc=+/-12V)		50/40		mA
Control Logic TTL		0/+5		v
Impedance		50		Ω
Input Output Connector		SMA-k/SMA-K		
Material		Aluminium/Gold Painting		
Weight		50g		
Package Sealing		Epoxy Sealing (Standard)		



MODEL HISPDR2730

27-30GHz Broadband PIN Switch



■ Features

- Ultra Wide Band: 27-30GHz
- Low Insertion Loss: 3dB
- High Isolation
- Switch Type: Reflection

■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

□ Electrical Specifications

Parameter	Min	Typ	Max	Units
Frequency Range		27-30		GHz
Insertion Loss		3.0	5.2	dB
Loss Variation Over Temperature		0.003		dB/°C
Isolation	48	60		dB
Input VSWR		1.2	1.3	-
Output VSWR		1.18	1.2	-
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		Ω
Input Output Connector		2.92-K		
Control Port		MICRO-D9		
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

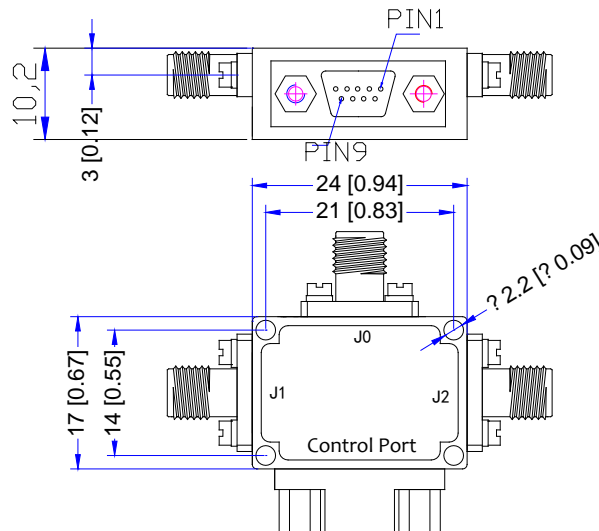
Absolute Maximum Ratings

Supply Bias Voltage	+/-10%
RF INPUT POWER	0.3W
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing

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



MICRO-D9									Truth Table	
1	2	3	4	5	6	7	8	9	Control TTL Input	Signal Path State
+5V	-5V	GND	C1	NC	NC	NC	NC	NC	C1	J0-J1
									0	J0-J1
									1	J0-J2