



RF-LAMBDA

The power beyond expectations

RFPSHT0102N5

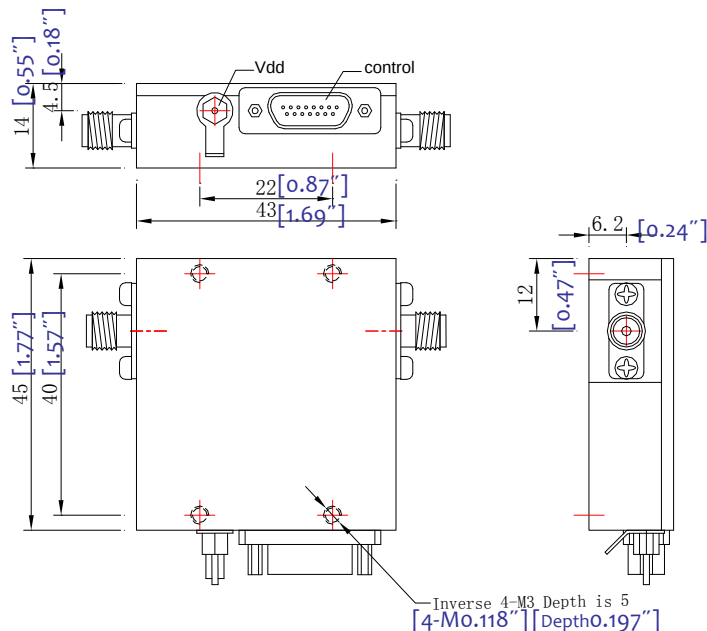
1-2GHz Digital 5 Bits 360° Step Phase Shifter



Features

- Wide Band Operation with full 1-2GHz bandwidth.
- High linearity up to 5W upon request.
- TTL compatible driver include
- Fast Switching Speed
- Flat phase shifting response, low phase error.
- Low Insertion Loss and High Isolation
- Temperature Range -40°C~+85°C
- Customization available upon request

Parameter	Min.	Parameter	Max.	Units
Frequency Range	1	-	2	GHz
Insertion Loss*	-	4.0		dB
Input Return Loss*	-	2.5	3.0	dB
Output Return Loss*	-	2.5	3.0	dB
Phase Error*	-	+/- 2.0	+15/-5.0	deg
RMS Phase Error	-		5.0	deg
Input Power for 1 dB Compression		10		dBm
Control Voltage	0	-	5	V
Bias Voltage Current (+12V)	-	-	20	mA



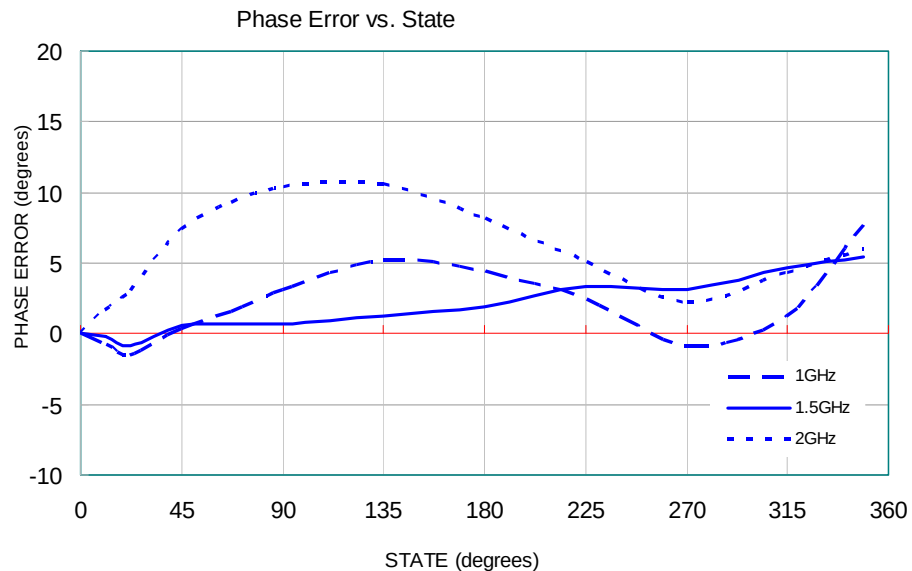
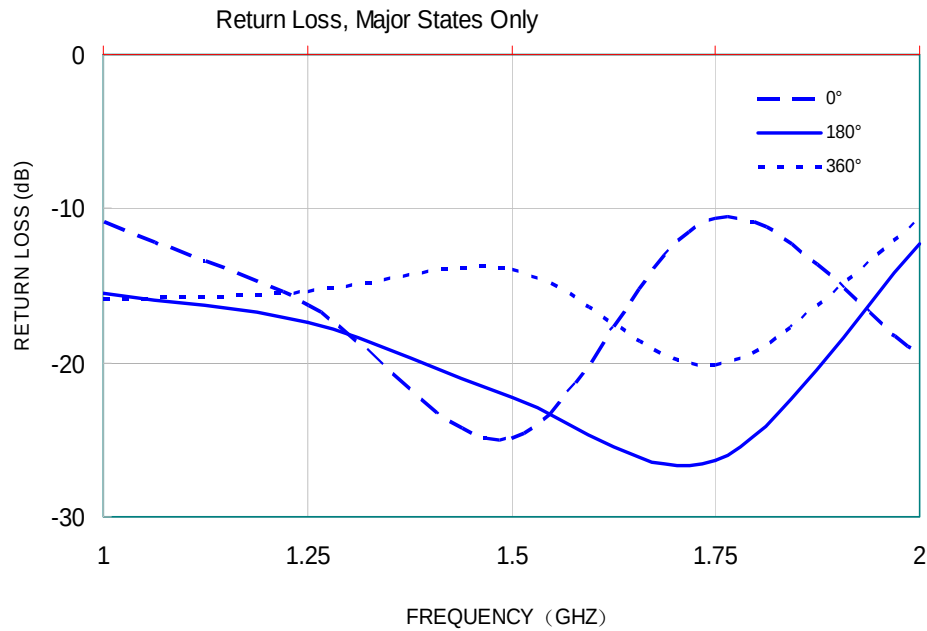
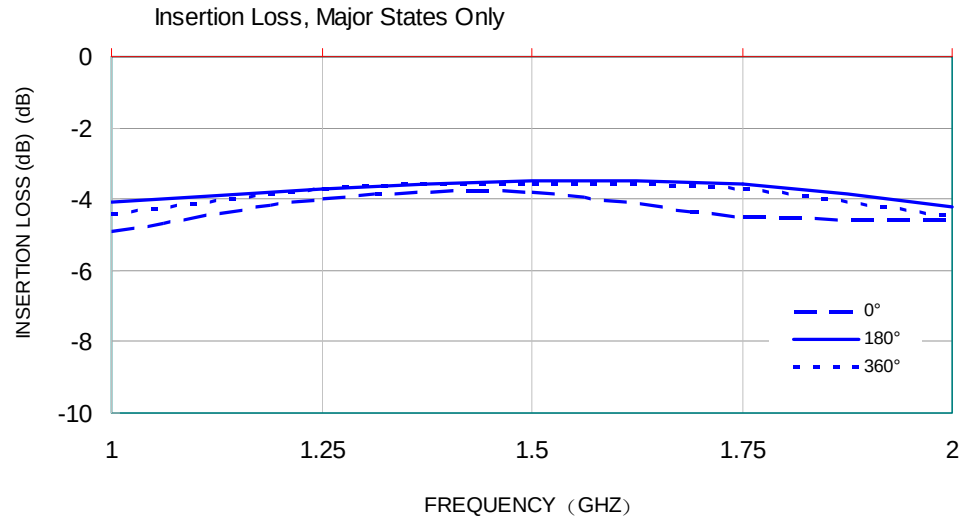
Control Voltage:

State	Voltage
Low(0)	0 to +0.5V
High(1)	+3 to +5V(Note 5)

Absolute Maximum Ratings:

Operating Temperature	20° C to 70° C
Storage Temperature	-55° C to 100° C
(Vdd) Max!	15V
(Vc):	5.0 V
Input Power (RFI N) Max!	10 dBm

1-2GHz Full Band Digital Step 360° 5 Bits Phase Shifter

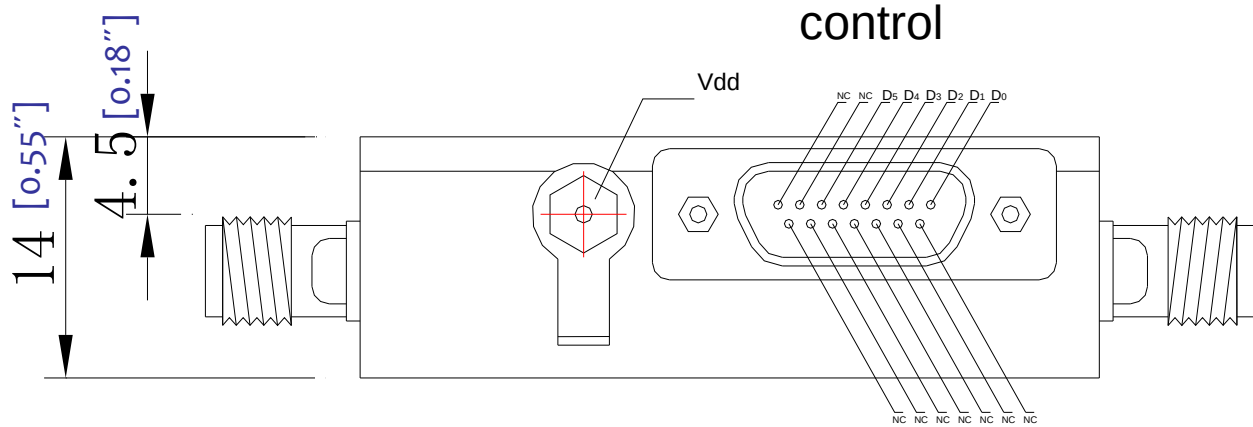




RF-LAMBDA

The power beyond expectations

RFPSHT0102N5



Control Voltage Input					Phase Shift (Degrees) RFIN - RFout
D4	D3	D2	D1	D0	
1	1	1	1	1	Reference*
1	1	1	1	0	11.25
1	1	1	0	1	22.5
1	1	0	1	1	45.0
1	0	1	1	1	90.0
0	1	1	1	1	180.0
1	1	1	1	1	348.7
0	0	0	0	0	11.25



1-2GHz Full Band Digital Step 360° 5 Bits Phase Shifter