



## 1-2GHz Digital 4/5/6 Bits 360° Step Phase Shifter



### Features

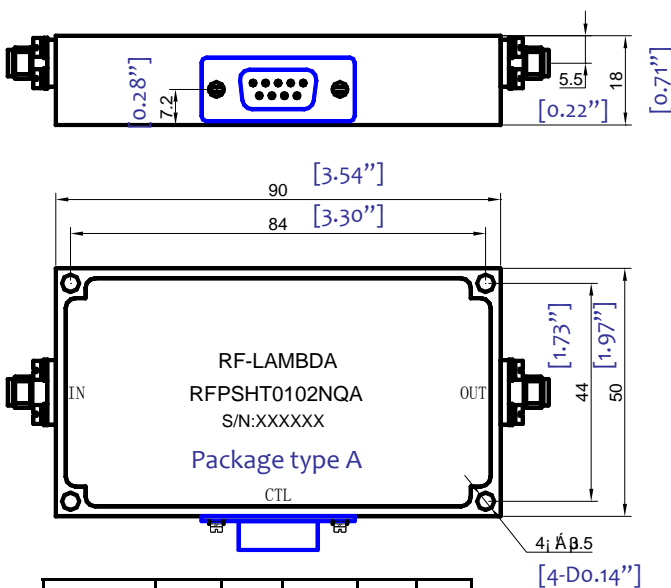
- Wide Band Operation up to 15% wide bandwidth.
- High linearity up to 5W upon request.
- TTL compatible driver include
- Fast Switching Speed
- Flat phase shifting response, low phase error.
- Low Insertion Loss and High Isolation
- Temperature Range -40°C~+85°C
- Customization available upon request

### 360° Digital Phase Shifter 4/5/6 bits (Wide Band Absorptive)

Part Number	Center Frequency (GHz)	Bandwidth	Insertion Loss (dB)	VSWR	Opt Power	Step	Phase Range	Phase Slope
RFPSHT0102N4	1-2GHz	FULL	3.0dB	2.00	10dBm	22.5°	360°	±5.6°
RFPSHT0102N5	1-2GHz	FULL	3.5dB	2.00	10dBm	11.25°	360°	±5.6°
RFPSHT0102N6	1-2GHz	FULL	4.0dB	2.00	10dBm	5.625°	360°	±5.6°

### 360° Digital Phase Shifter 4/5/6 bits (Narrow Band Reflective)

Part Number	Center Frequency (GHz)	Bandwidth	Insertion Loss (dB)	VSWR	Power	Step	Phase Range	Phase Slope
RFPSHT0102D4	1-2GHz	15%	1.3dB	1.35	10dBm	22.5°	360°	±2.0°
RFPSHT0102D5	1-2GHz	15%	1.6dB	1.35	10dBm	11.25°	360°	±2.0°
RFPSHT0102D6	1-2GHz	15%	2.0dB	1.35	10dBm	5.625°	360°	±2.0°



T1	T2	T3	T4	T5	Phase(°)
0	0	0	0	0	Zero
1	0	0	0	0	-11.25
0	1	0	0	0	-22.5
0	0	1	0	0	-45
0	0	0	1	0	-90
0	0	0	0	1	-180
1	1	1	1	1	-348.75

1 for High Voltage, 0 for Low Voltage

### Electrical Operation

DC Biasing: +5.0V (50mA max.)  
-5.0V (200mA max.)

### Mechanical Specification

Finishing: Gold plating for brass material  
Other finishing available  
Connector: SMA-F Per MIL-C-39012  
Control PIN: 0.02" dia x 0.15" solder pins  
Weight: 155 grams max.  
Mounting: (4) 0.14" dia through holes

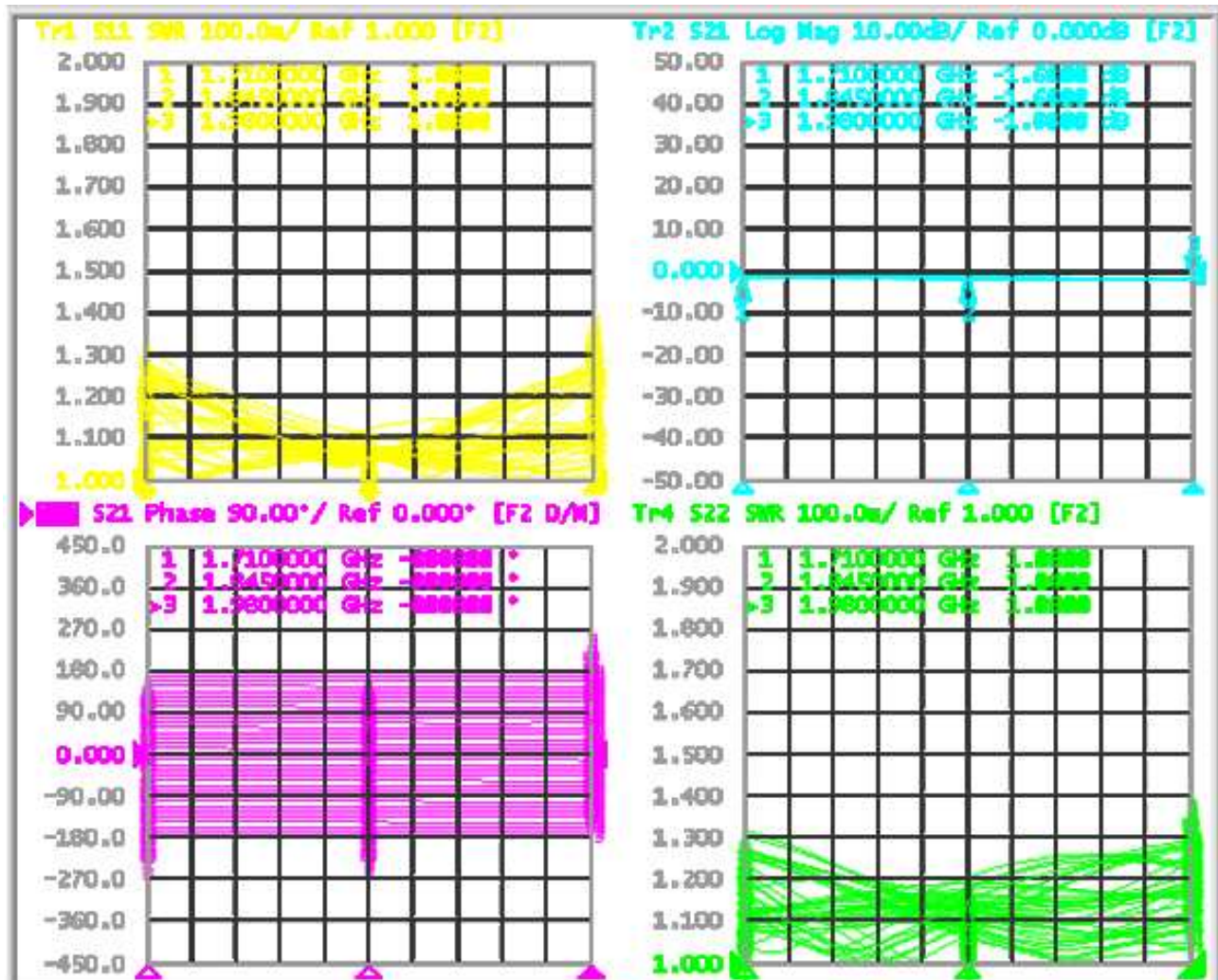
PIN	1	2	3	4	5
Function	T1	T2	T3	T4	T5
PIN	6	7	8	9	
Function	+5V	-5V	GND	NC	

1-2GHz Digital Step 360° 4/5/6 5 Bits Phase Shifter





## Sample performance Non-Dispersive (tuned to 1710-1980MHz) 0~360 degree switching data



1-2GHz Digital Step 360° 4/5/6 5 Bits Phase Shifter



# RF-LAMBDA

The power beyond expectations

RFPSHT0102XX

1-12GHz Digital Step 360° 4/5/6 5 Bits Phase Shifter

