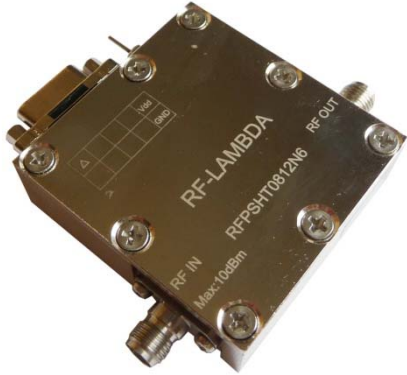




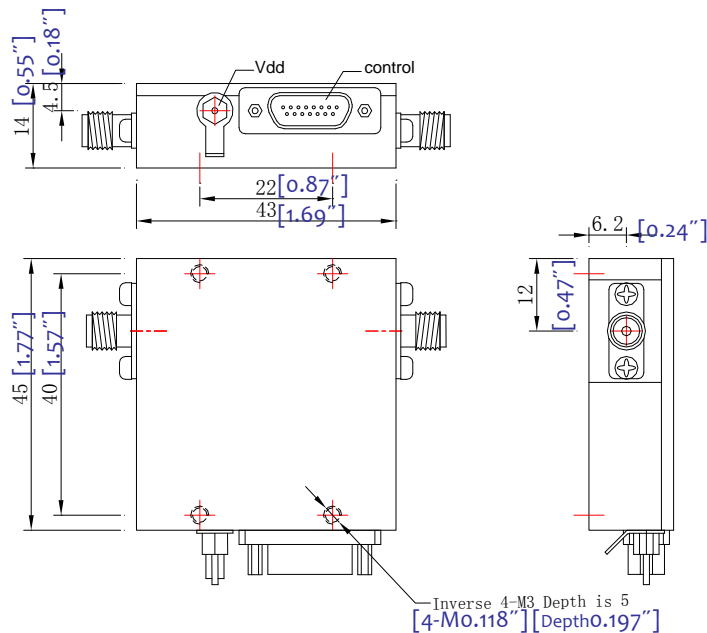
2-4GHz Digital 6 Bits 360° Step Phase Shifter



Features

- Wide Band Operation with full 2-4GHz 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 | 2 | - | 4 | GHz |
| Insertion Loss* | - | 5.0 | - | dB |
| Input Return Loss* | - | 2.5 | 3.0 | dB |
| Output Return Loss* | - | 2.5 | 3.0 | dB |
| Phase Error* | - | +/- 5.0 | +20/-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! | 27 dBm |

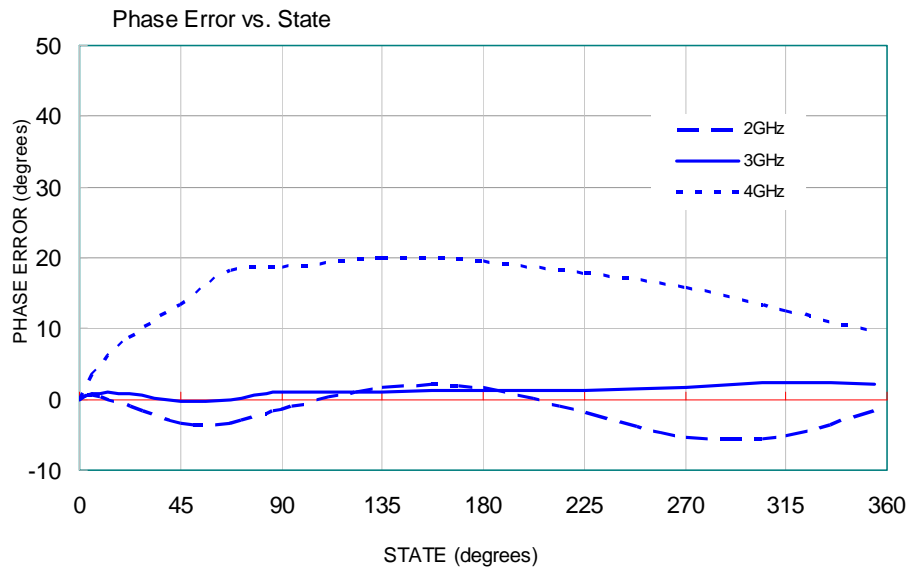
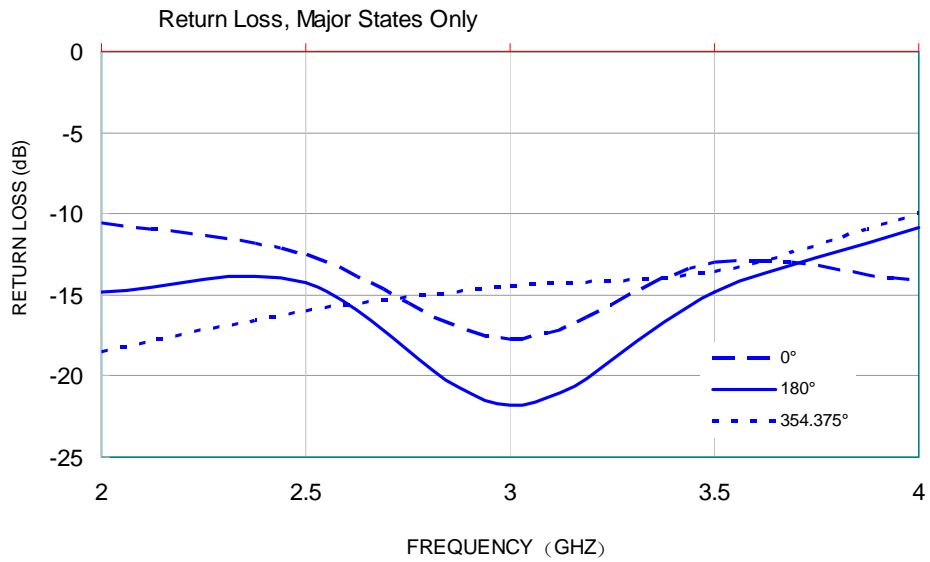
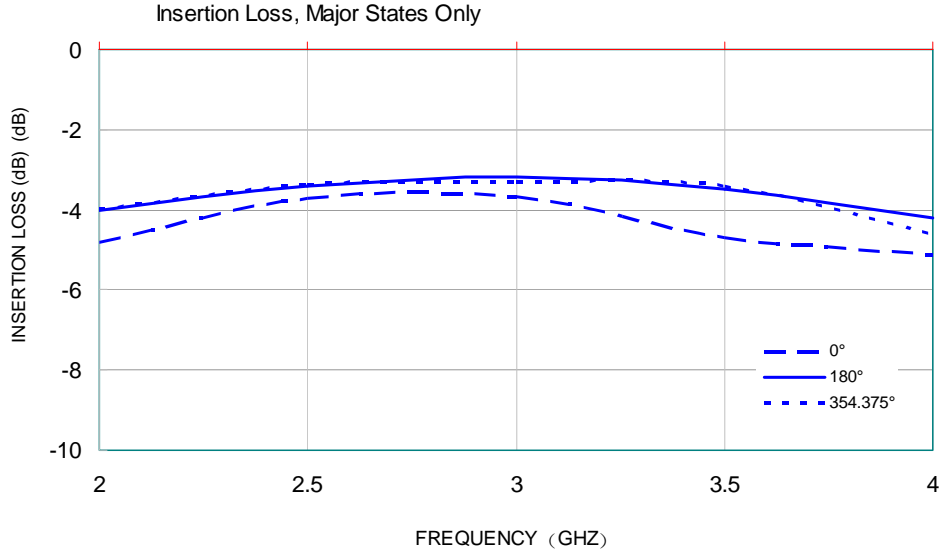


RF-LAMBDA

The power beyond expectations

RFPSHT0204N6

2-4GHz Full Band Digital Step 360° 6 Bits Phase Shifter

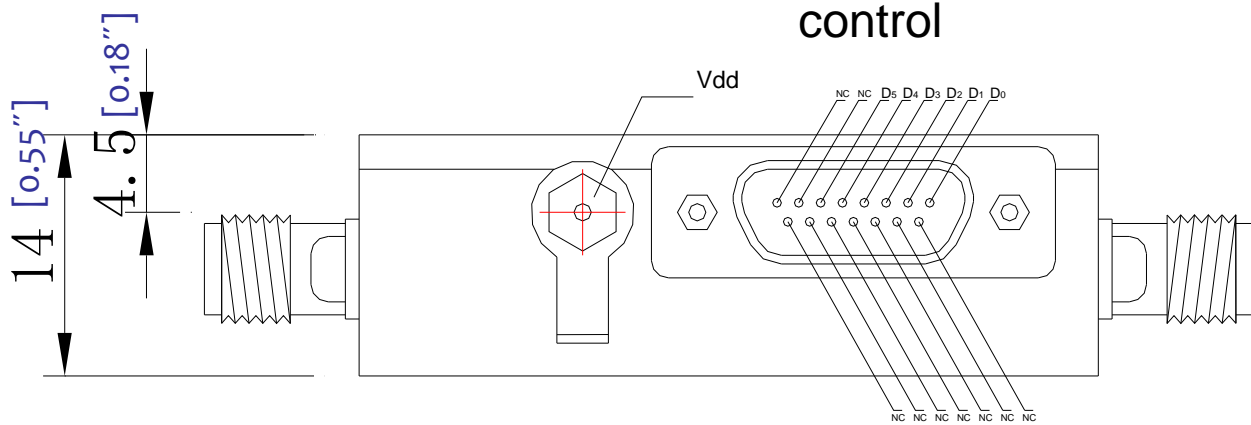




RF-LAMBDA

The power beyond expectations

RFPSHT0408N6



| Control Voltage Input | | | | | | Phase Shift (Degrees) RFIN - RFout |
|-----------------------|----|----|----|----|----|---|
| D5 | D4 | D3 | D2 | D1 | D0 | |
| 1 | 1 | 1 | 1 | 1 | 1 | Reference* |
| 1 | 1 | 1 | 1 | 1 | 0 | 5.625 |
| 1 | 1 | 1 | 1 | 0 | 1 | 11.25 |
| 1 | 1 | 1 | 0 | 1 | 1 | 22.5 |
| 1 | 1 | 0 | 1 | 1 | 1 | 45.0 |
| 1 | 0 | 1 | 1 | 1 | 1 | 90.0 |
| 0 | 1 | 1 | 1 | 1 | 1 | 180.0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 354.375 |



2-4GHz Full Band Digital Step 360° 6 Bits Phase Shifter