



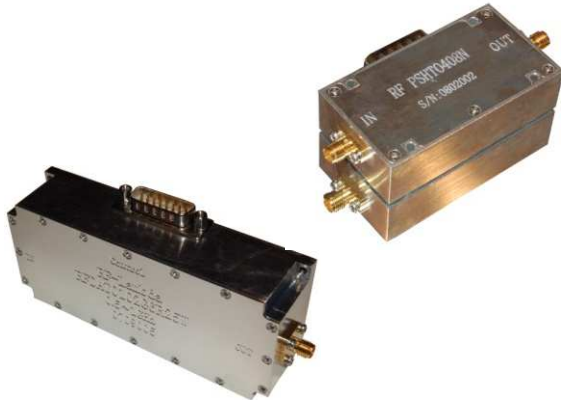
# RF-LAMBDA

The power beyond expectations

## 6 Bits Digital Phase shifter

### Applications:

- Flat phase variation cross frequency.
- Low phase error, low insertion loss.
- A balanced micro-stripe keeps low VSWR and amplitude in-balance.
- High power unit is available upon request.
- Standard unit operate with 6 Bits.



### Dispersive Phase Shifters

1. TTL Driver, 6 Bits
2. Insertion loss was tested under “0000” status.
3. Accuracy:  $\pm 2^\circ$
4. Temperature Drift:  $\pm 3\%$
5. Octave Bandwidth
6. Parasitical amplitude modulation:  $\pm 0.2\text{dB}$
7. Operating Temperature:
  - 40°C~+70°C commercial standard
  - 55°C~+85°C Mil standard
  - 55°C~+100°C Aerospace standard

### Narrow Band Reflective Phase Shifter

Part Number	Freq. (GHz)	Bandwidth (%)	Step (°)	(°) Phase Accuracy	TTL Control	Insertion Loss (dB)	IL Ripple (dB)	VSWR (max.)	Phase Range (°)	Average Power (Watts)
RFPSHT0001D6	0.01-1	20%	5.60	$\pm 2$	6 bits	2.00	0.50	1.30	354.50	0.2
RFPSHT0102D6	1-2	15%	5.60	$\pm 2$	6 bits	2.00	0.50	1.30	354.50	0.2
RFPSHT0204D6	2-4	15%	5.60	$\pm 3$	6 bits	3.20	0.60	1.40	354.50	0.2
RFPSHT0408D6	4-8	13%	5.60	$\pm 4$	6 bits	5.00	0.70	1.50	354.50	0.2
RFPSHT0812D6	8-12	12%	5.60	$\pm 5$	6 bits	6.50	0.90	1.70	354.50	0.2
RFPSHT1218D6	12-18	10%	5.60	$\pm 6$	6 bits	9.50	1.20	2.00	354.50	0.2

### Wide Band Absorptive Phase Shifter

Part Number	Freq. (GHz)	Bandwidth (%)	Step (°)	(°) Phase Accuracy	TTL Control	Insertion Loss (dB)	IL Ripple (dB)	VSWR (max.)	Phase Range (°)	Average Power (Watts)
RFPSHT0001N6	0.01-1	20%	5.60	$\pm 5.6$	6 bits	4.00	0.20	2.00	354.50	0.2
RFPSHT0102N6	1-2	Full	5.60	$\pm 5.6$	6 bits	4.00	0.20	2.00	354.50	0.2
RFPSHT0204N6	2-4	Full	5.60	$\pm 5.6$	6 bits	4.00	0.30	2.00	354.50	0.2
RFPSHT0408N6	4-8	Full	5.60	$\pm 10$	6 bits	6.00	0.40	2.00	354.50	0.2
RFPSHT0812N6	8-12	Full	5.60	$\pm 10$	6 bits	6.00	0.50	2.00	354.50	0.2
RFPSHT1218N6	12-18	Full	5.60	$\pm 10$	6 bits	9.00	1.60	3.00	354.50	0.2

6 BITS DIGITAL PHASE SHIFTER (ABSORPTIVE / REFLECTIVE)



# RF-LAMBDA

The power beyond expectations

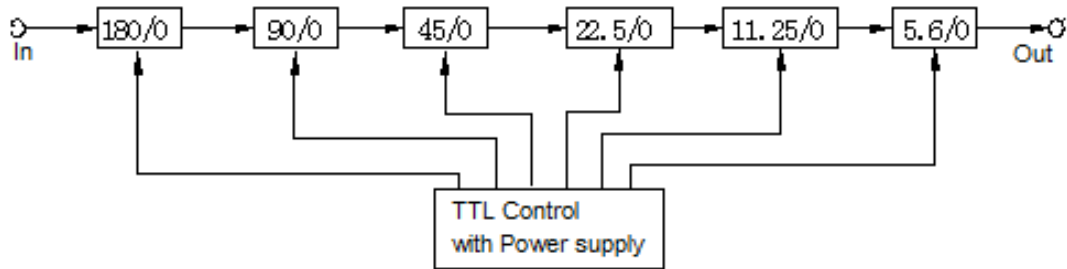


Figure 1. Phase Shifter structure

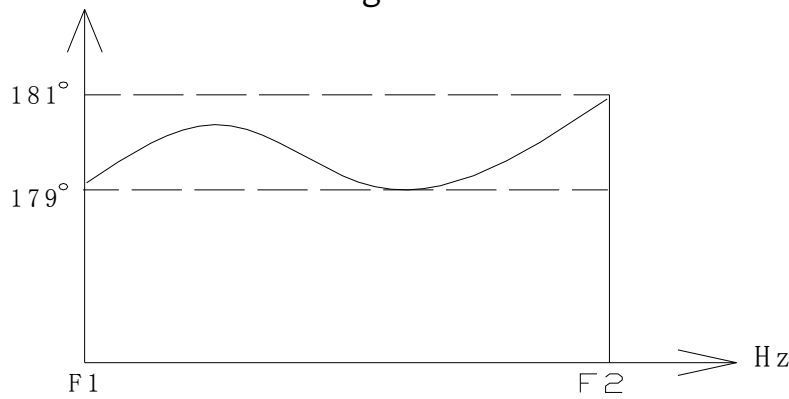
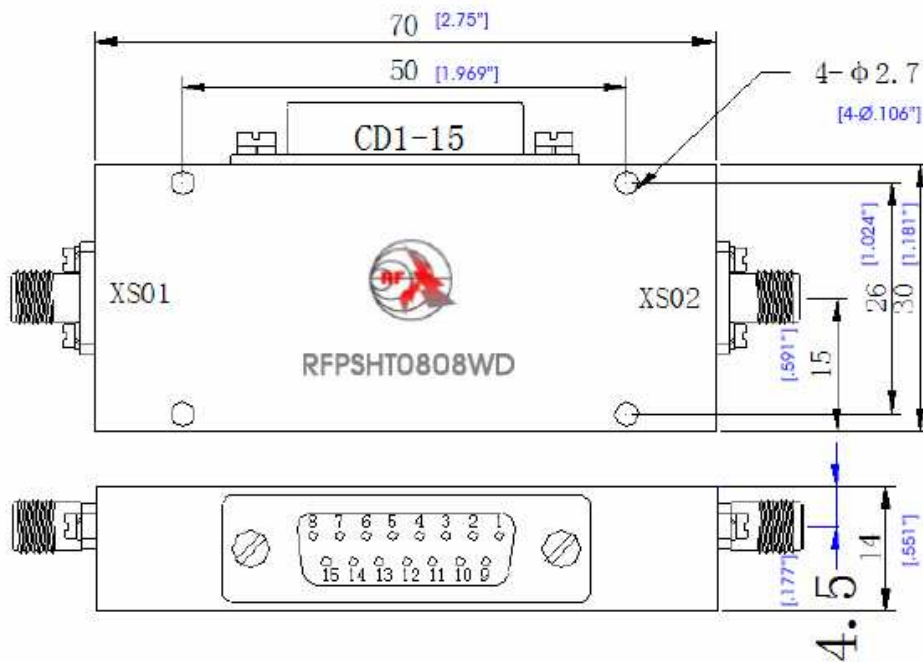


Figure 2. Non-Dispersive Phase Shifter Sample plot.

## Package A



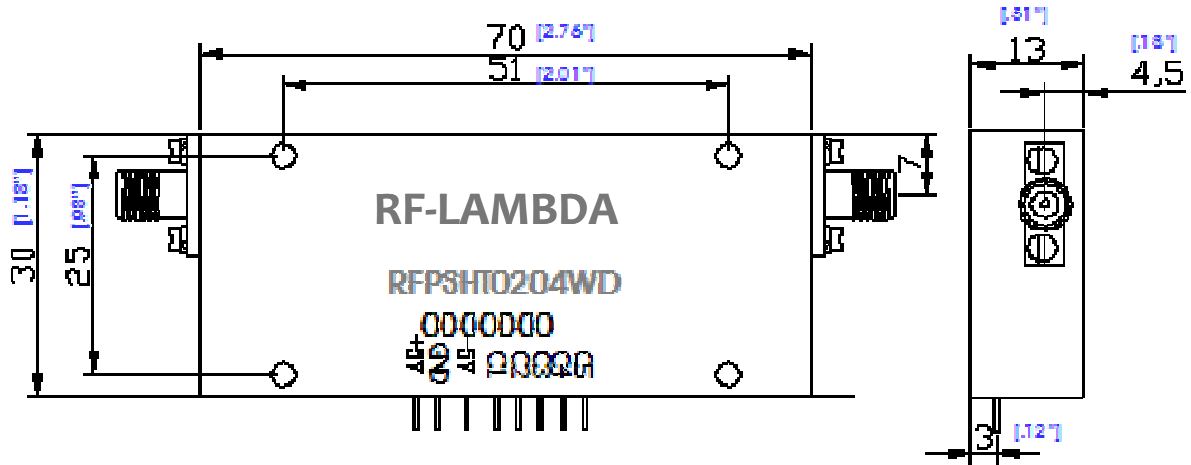
6 Bits DIGITAL PHASE SHIFTER (ABSORPTIVE / REFLECTIVE)



# RF-LAMBDA

The power beyond expectations

## Package B



6 BITS DIGITAL PHASE SHIFTER (ABSORPTIVE / REFLECTIVE)