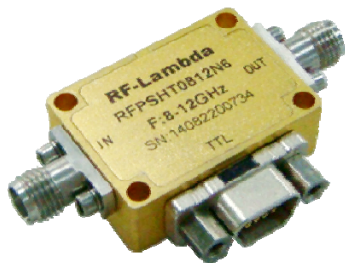




Digital Non-Dispersive Phase Shifter 8-12GHz



Features

- Ultra wide band:8-12GHz
- High Power Handle Capability up to 0.1W
- Temperature Range -40°C~+85°C
- Customization available upon request

Electrical Specifications, $T_A = +25^\circ\text{C}$, With $V_{SS} = -5\text{V}$ & $V_{CTL} = 0/+5\text{V}$

Parameter	Frequency(GHz)	Min	Typ.	Max	Units
Insertion Loss	8~12		9	10	dB
Phase Range	8~12		360		°
Step	8~12		5.63		°
Control Bits			6		
VSWR	8~12		1.6	2	
Phase Flatness	8~12		±4		°
Input Power For 0.1dB Compression	8~12		20		dBm
Response Time	8~12		1		us
Impedance(Ohms)	50				Oh
I _{SS}	50				mA
Weight	50				g
Operating Temperature	-45~+85				°C
Input / Output Connector	SMA-Female/SMA-Female				
Finishing	Gold Plating				
Material	Brass				



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The power beyond expectations

RFPSHT0812N6

Truth Table

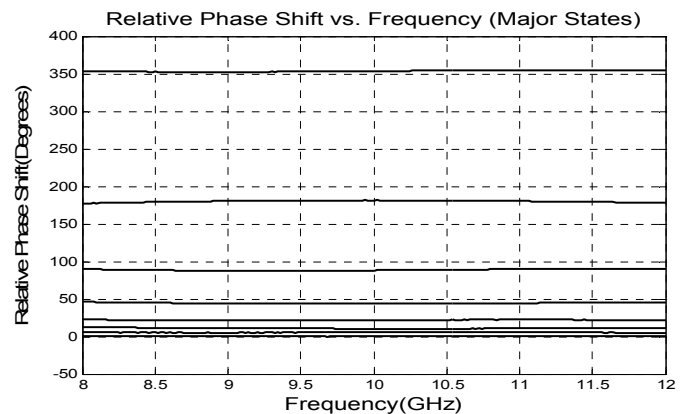
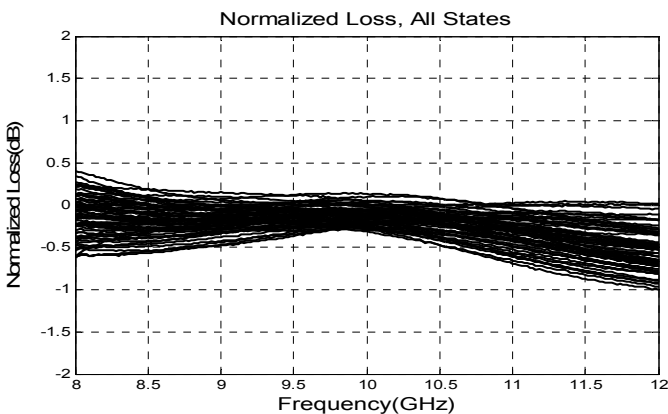
Control Voltage Input						Phase Shift (Degree)
C6	C5	C4	C3	C2	C1	
1	1	1	1	1	1	Reference
1	1	1	1	1	0	5.6
1	1	1	1	0	1	11.25
1	1	1	0	1	1	22.5
1	1	0	1	1	1	45
1	0	1	1	1	1	90
0	1	1	1	1	1	180
0	0	0	0	0	0	360

Absolute Maximum Ratings	
Biasing	-5V
TTL Control Voltage	+5V/0V
Input RF power	+20dBm
Storage Temperature (C°)	-50 ~ +125

Biasing Up Procedure	
Step 1	-5V
Step 2	TTL
Power OFF Procedure	
Step 1	TTL
Step 2	-5V

Environment specifications	
Operational Temperature (C°)	-45 ~ +85
Storage Temperature (C°)	-50 ~ +125
Altitude	30,000 ft (Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40 deg c
Shock	20G for 11msc half sin wave, 3 axis both directions

Ordering Information		
Part No	ECCN	Description
RFPSHT0812N6	EAR99	8-12GHz Digital Control Attenuator



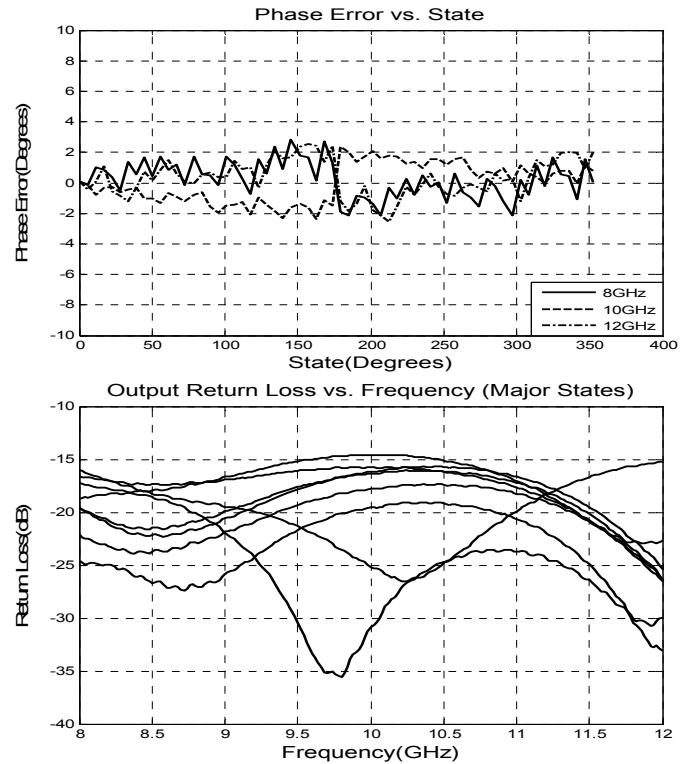
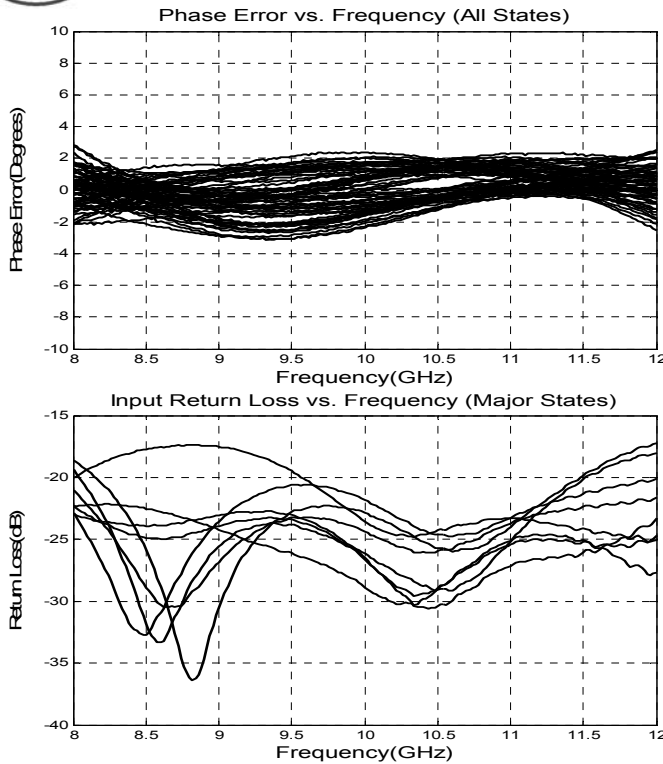
Digital Non-Dispersive Phase Shifter 8-12GHz



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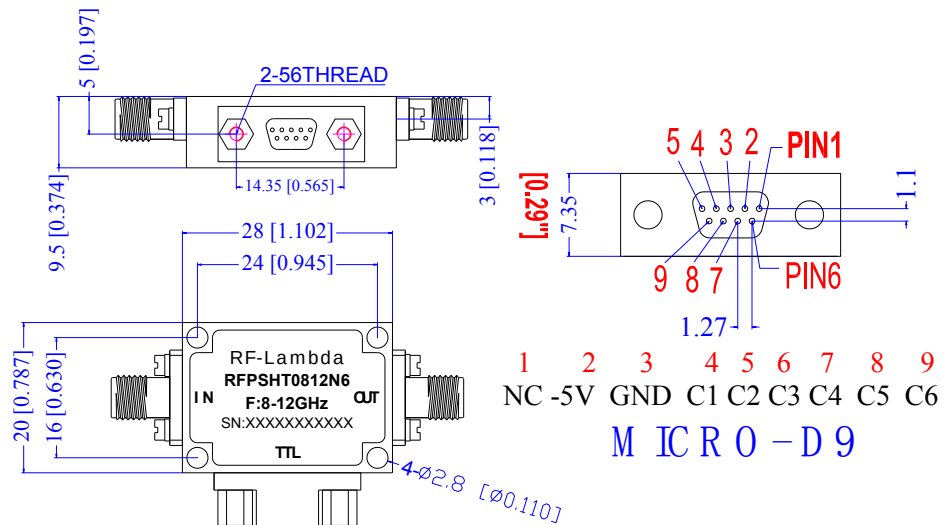
The power beyond expectations

RFPSHT0812N6



Outline Drawing:

All Dimensions in mm
(inches)



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