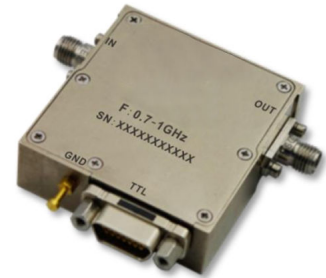




Digital Non-Dispersive 360° Phase Shifter 0.7 - 1GHz

Features

- Wide Band Operation 0.7-1GHz
- 6-Bit Phase Shift
- Temperature Range -40°C~+85°C
- Customization available upon request
- Hermetically sealed package up to 60,000ft available upon request.



Parameters	Min	Typ.	Max	Units
Frequency Range	0.7		1	GHz
Phase Range		360		°
Control Bits			6	Bit
Control Step size		5.625		°
Insertion Loss		4.8	6.0	dB
Insertion Loss Temperature Coefficient		0.008		dB/ °C
Phase Flatness		±2	±25	°
Input VSWR		1.5	2.0	: 1
Output VSWR		1.5	2.0	: 1
Input 1 dB Compression Point(P1dB)			23	dBm
Weight		1.76		Ounces
Impedance		50		Ω
Bias Current (+12V)		20		mA
Input / Output Connectors	SMA-Female			
Interface and Control Connector	MICRO-D15 (Female)			
Finish	Nickel plated			
Material	Aluminum			
Sealing	Hermetically Sealed (Optional)			



Absolute Maximum Ratings

Biasing	+12V±10%
TTL Control Voltage	0~0.8V/3~5V

Environmental Specifications

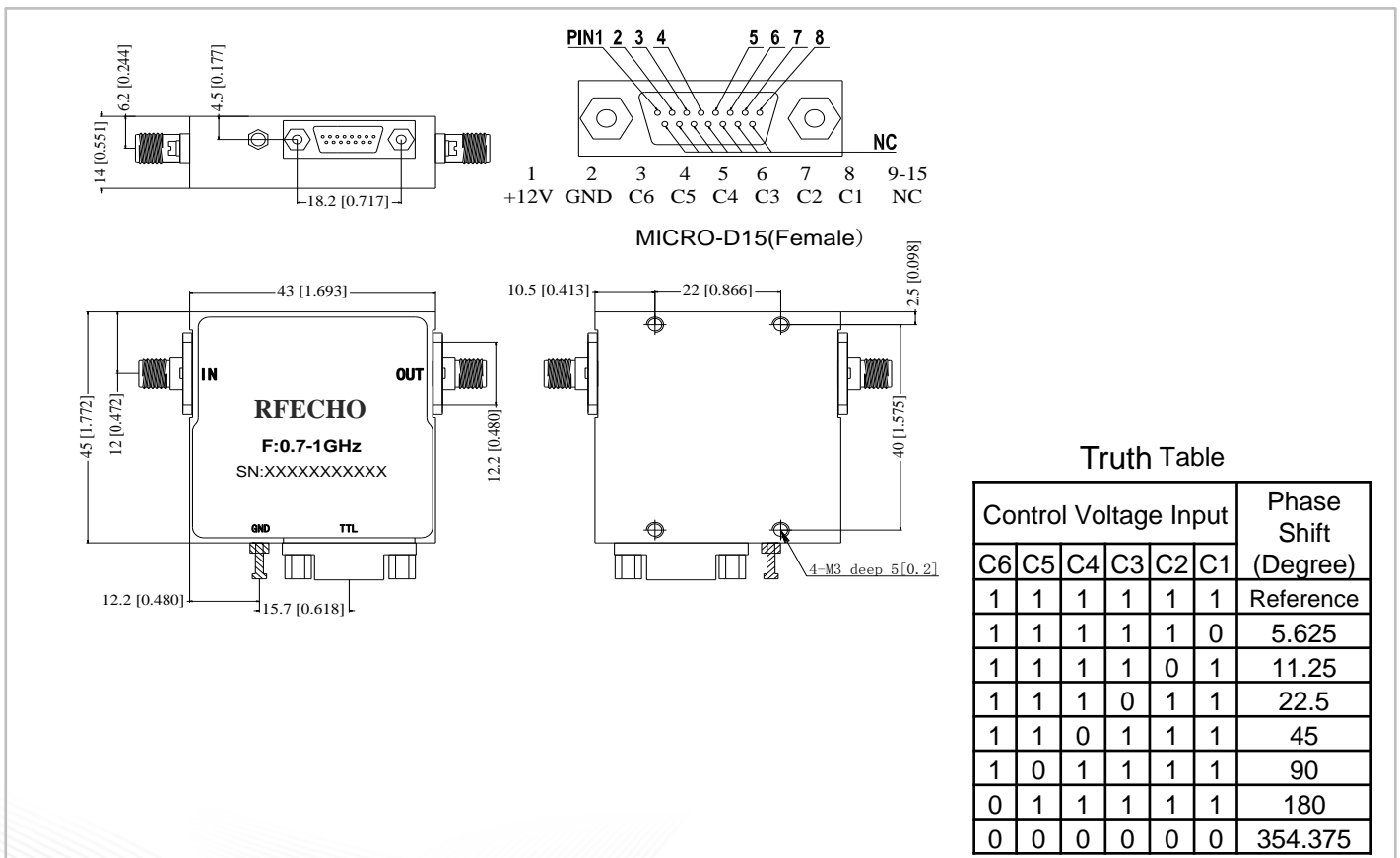
Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions

Ordering Information

Part No.	Description
DBDP0700700100A	0.7-1GHz Digital Phase Shifter

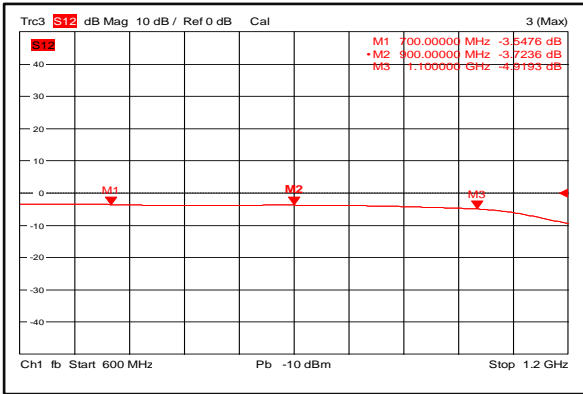
Outline Drawing:

All Dimensions in mm (inches)

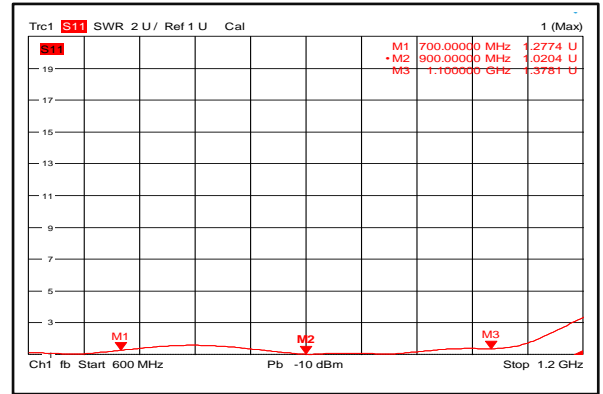




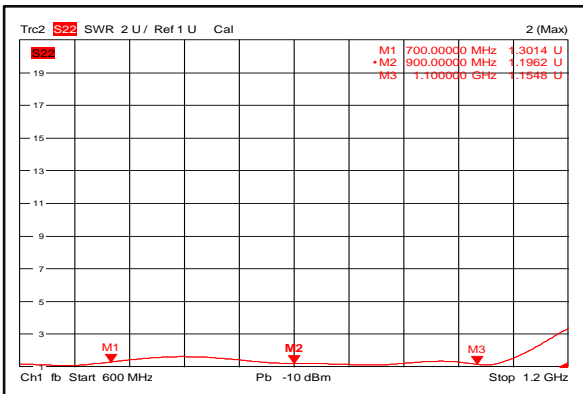
Insertion Loss



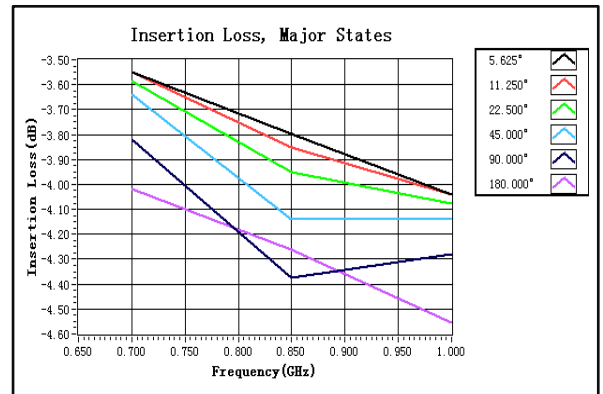
Input VSWR



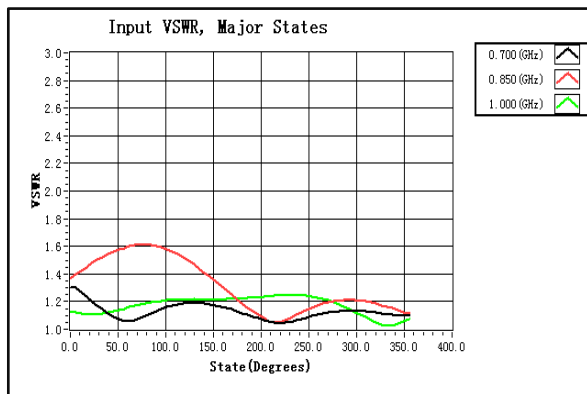
Output VSWR



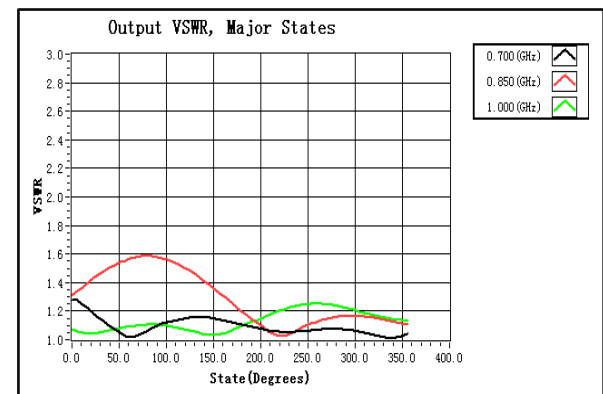
Insertion Loss vs. Frequency



Input VSWR vs. Frequency

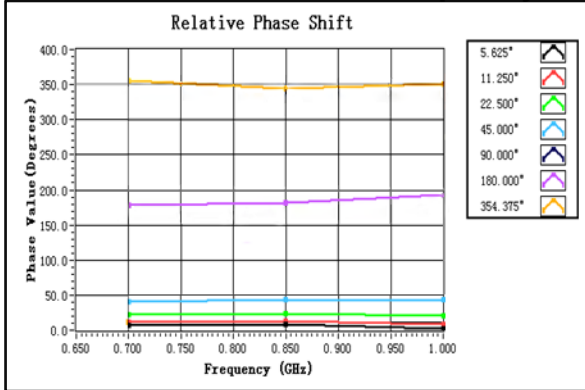


Output VSWR vs. Frequency

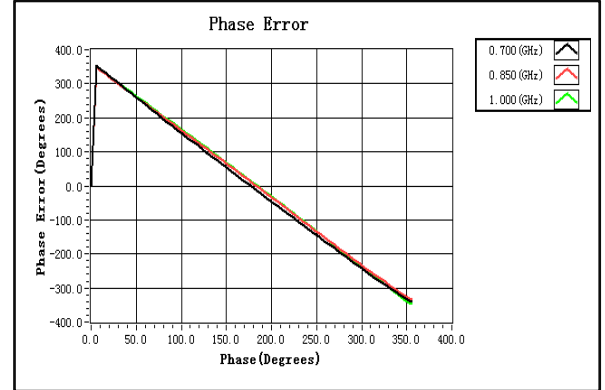




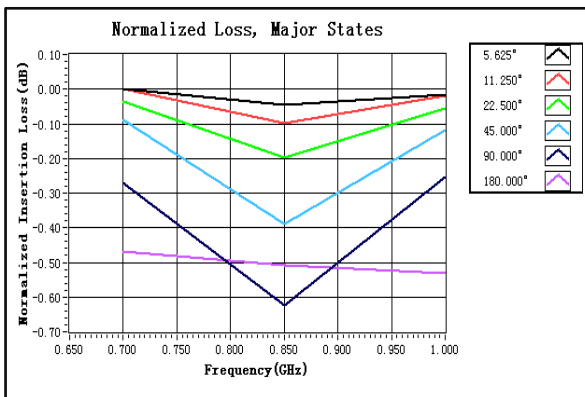
Relative Phase Shift vs. Frequency



Phase Error vs. State



Normalized Loss . All States



Attenuation vs. Frequency

