

Model 4152

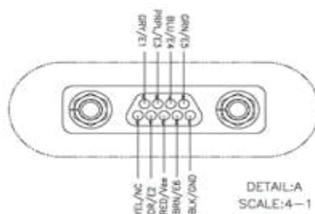
6 Bit Digital Phase Shifter

Microwave Phase Shifter @ 25°C

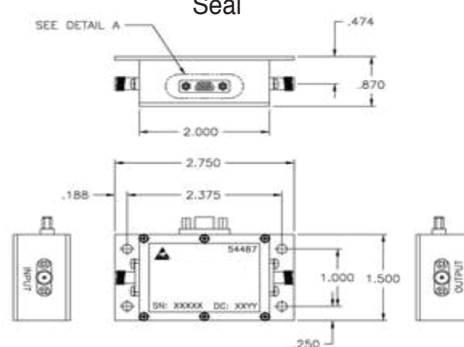
Frequency Range	1.3 GHz to 1.5 GHz
1dB compression point (P1dB)	27 dBm
Number of bits	6
LSB Resolution	5.6 Degree
Input Power (Damage level)	36 dBm
Insertion Loss for any state (Maximum)	6.5 dB
VSWR(Maximum)	1.8:1
Phase Bit Accuracy	
Bit 1	5.6 $\pm 3^\circ$
Bit 2	11.25 $\pm 3^\circ$
Bit 3	22.5 $\pm 3^\circ$
Bit 4	45 $\pm 3^\circ$
Bit 5	90 $\pm 5^\circ$
Bit 6	180 $\pm 10^\circ$

Dimensions

Refer to Outline Drawing



PIN #	FUNCTION
1	GND -SV ref
2	E6 180°
3	Vee -5V
4	E2 11.2°
5	NC
6	E5 90°
7	E4 45°
8	E3 22.5°
9	E1 5.6°



General Specifications

Connectors	
RF (J1, J2)	SMA(F)
Control / Bias	9 Pin Connector
Control	
Logic	TTL
State Table	
Phase Bit control E1-E6	RF Path
Logic 0	Ref.
Logic 1	Ref. + phase shift
DC Power Requirements	
Digital Supply	-5 +/- 5%
Digital supply current (Max)	10 mA

Environmental Requirements

Temperature	
Operating	-40 to +85 °C
Storage	-55 to +150°C
Cooling	Conduction cooling through surface of switch body
Seal	Moisture Seal



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