

FEATURE:

- Fast switching speeds(down to 20 ns maximum)
- Optimized for lowest phase deviation over band
- RMS phase error $\leq 3^\circ$ typical
- Low insertion loss
- Power handling up to 30 dbm
- IP3(typically 25 dbm)
- Hermetic sealing available

APPLICATION:

- Test equipment
- Radar&Warfare array system
- Communication system



ELECTRICAL SPECIFICATIONS@25°C:

Parameter	Min	Typical	Max	Units
Frequency Range	9		11	GHz
Insertion Loss			5.5	dB
VSWR		1.7:1	1.8:1	Ratio
Switching Speed			5	us
Phase accuracy		± 3	± 5	$^\circ$
Amplitude balance			0.5	dB
Phase shift			337.5	$^\circ$
Phase shift step size			22.5	$^\circ$
Control Logic TTL Compatible		4		bits
Input Power			27	dBm
DC Power supply +5V		200		mA
DC Power supply -5V		200		mA

Note:1.All Specifications assure Center frequency 10GHz full frequency band: linearity.

ENVIRONMENTAL RATINGS:

Parameter	Min	Typical	Max	Units
Operating Temperature	-40		+85	C
Non-operating Temperature	-55		125	C
Relative humidity (non-condensing)		95		%
Altitude (MIL-STD-810F)	10000		30000	feet
Shock / Vibration (MIL-STD-810F)		Airbone		

DB9 PIN ASSIGMENT:

PIN1	PIN2	PIN3	PIN4	PIN5	PIN6	PIN7
+5V	C1	C2	C3	C4	GND	-5V

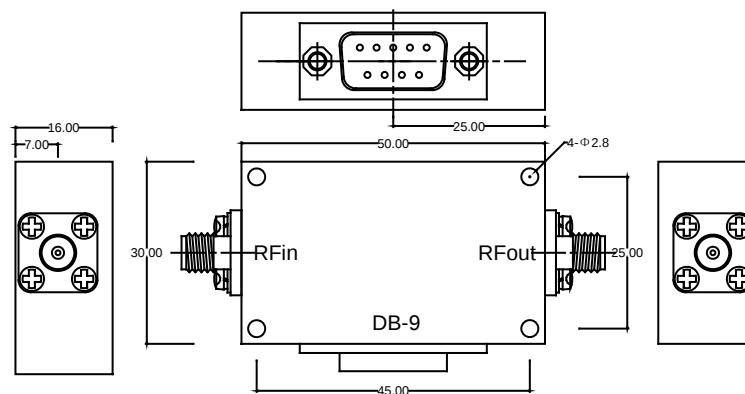
MECHANICAL SPECIFICATIONS:

Parameter	Value	Limits	Units
Dimensions	50*30*16	Max	Millimeter
Weight	150	typical	gram
RF Connectors Input	SMA-F		
RF Connectors output	SMA-F		
DC/Logic interface	DB9 female		
Impedance	50		ohms

CONTROL TRUE TABLE:

Control bits		Phase shift			
C6C5C4C3C2C1	22.5	45	90	180	
000001	OFF	OFF	OFF	OFF	OFF
000010	OFF	OFF	OFF	OFF	OFF
000100	ON	OFF	OFF	OFF	OFF
001000	OFF	ON	OFF	OFF	OFF
010000	OFF	OFF	ON	OFF	OFF
100000	OFF	OFF	OFF	ON	ON

OUTLINE DRAWING(mm):



PH2