

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 handing up to 30dbm
- ◆ Hermetic sealing availabe



APPLICATION:

- ◆ Test equipment
- ◆ Radar&EW array system
- ◆ Communication system

SPECIFICATIONS:

ITEMS	Parameters
Fre. Range (GHz)	2.0~4.0GHz
IL (dB)	12.5dB type 13.5dB max
Amplitude ripple (dB)	$\leq \pm 1$ dB
VSWR	1.8
Phase Shift($^\circ$)	0-360 $^\circ$
Control(Bits)	6Bits
Step Site ($^\circ$)	5.625 $^\circ$
Phase Accuracy ($^\circ$)	$\leq \pm 1.25^\circ$ type $\leq \pm 1.6^\circ$ max
Switching Speed (ns)	35ns
Input IP3(dBm)	35dBm type
Input Power(dBm)	20dBm type 23dBm max



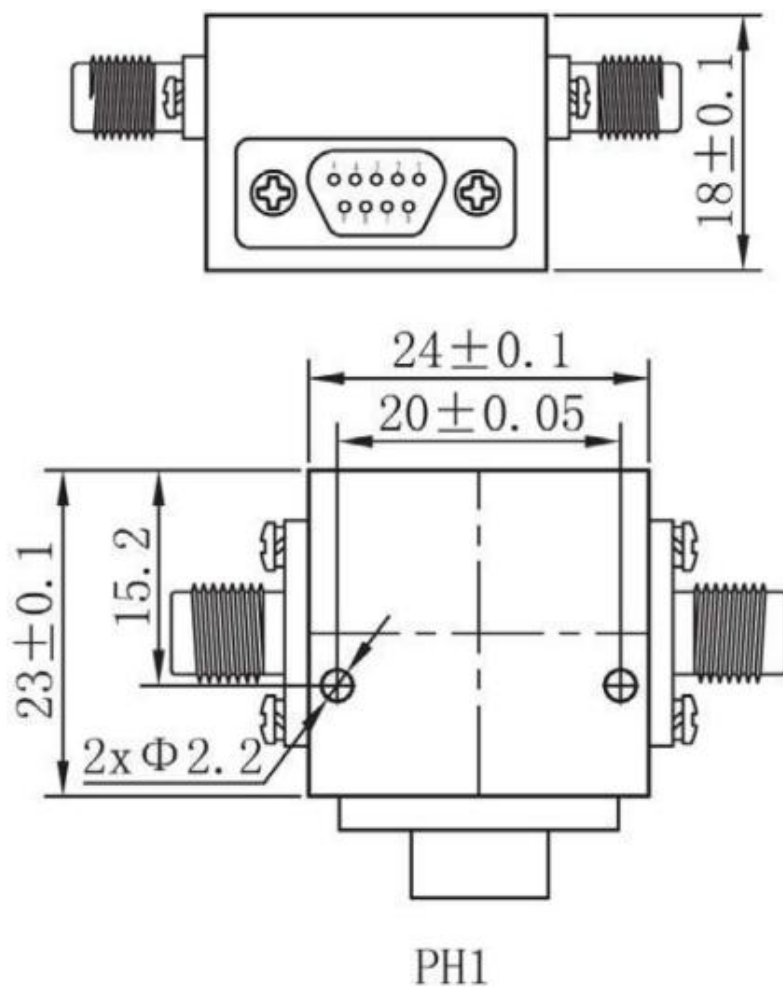
HENGWEI MICROWAVE

HWDPH2040-6

ENVIRONMENTAL RATINGS:

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

OUTLINE DRAWING(mm):



Connector: RF Input、Output (SMA-K 50 Ω)

Control Port: J30J-9

J30J-9 Pin Definition:

PIN No.	Property
1~7	Phase Control Port
8	NC
9	GND

Control: TTL Level

“0” : 0V; “1” : +5V

Phase Shifter	J30J-9 Pin No.						
	1	2	3	4	5	6	7
0° (Reference)	0	0	0	0	0	0	1
5°	1	0	0	0	0	0	1
11°	0	1	0	0	0	0	1
22°	0	0	1	0	0	0	1
45°	0	0	0	1	0	0	1
90°	0	0	0	0	1	0	1
180°	0	0	0	0	0	1	1
355°	1	1	1	1	1	1	1