

北京天华中威科技有限公司

TSP-010020G3-VD-5 宽带移相器

技术说明书



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50 Ω

1 to 2 GHz

特性

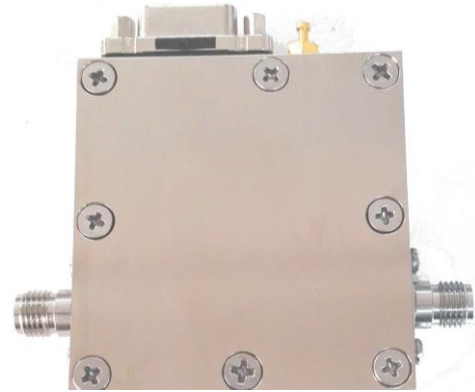
- 宽带: 1 ~ 2 GHz
- 低插入损耗: 6 dB
- 抑制 5Bit
- 相位变化范围360°

应用

- 电子战接收机
- 气象及军用雷达
- 通讯卫星
- 波束形成模块
- 相取消

技术指标

TA=+25°C Vdd=+5V Vc=0/+5V 50 Ohm System



指标参数	测试条件	最小值	典型值	最大值	单位
频率范围		1	-	2	GHz
插入损耗	全频率范围	-	6.0	-	dB
入口回波损耗	全频率范围	-		-10	
出口回波损耗	全频率范围	-		-10	
位相位误差	全频率范围	-	+/- 2.0	-	deg
均方值误差		-2		+12	deg
输入压缩 P1dB		-	10	-	dBm
位控制电压		L/0V		H/5V	V
电压/电流	5V	-	-	20	mA

测试条件,室温 25°C, 阻抗50 Ω 

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同轴

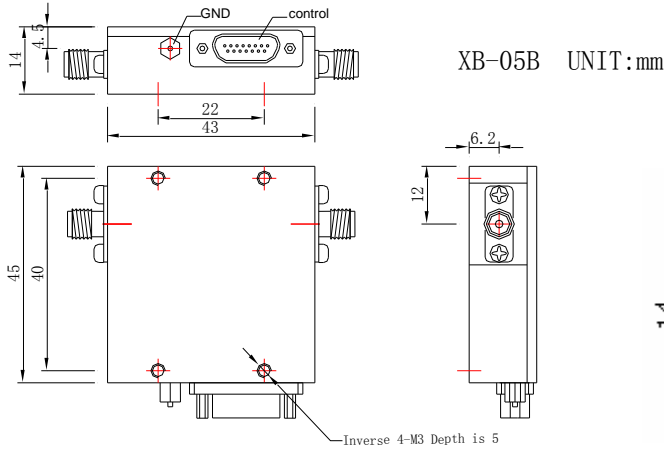
数字移相器

TSP-010020G3-VD-5

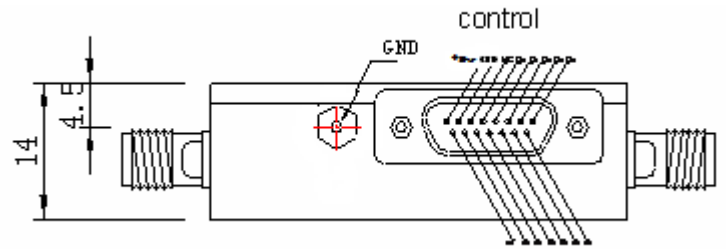
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1 to 2 GHz

外形尺寸图



控制图



极限参数

操作温度	-40°C to 70°C
储存温度	-55°C to 100°C
电源电压(max)	8V
控制电压(max)	
最大入口功率	10 dBm

State	Voltage
Low(0)	0 to +0.5V
High(1)	+3 to +5V(Note 5)

Note 5 : 内置上拉电阻 (约500 kΩ) , 悬空时代表High

超出该极限值有可能对器件造成损坏!

典型曲线图



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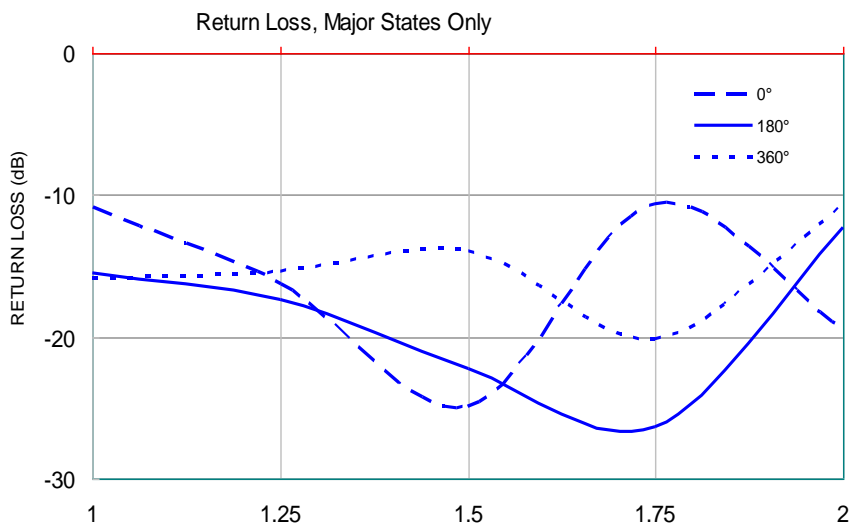
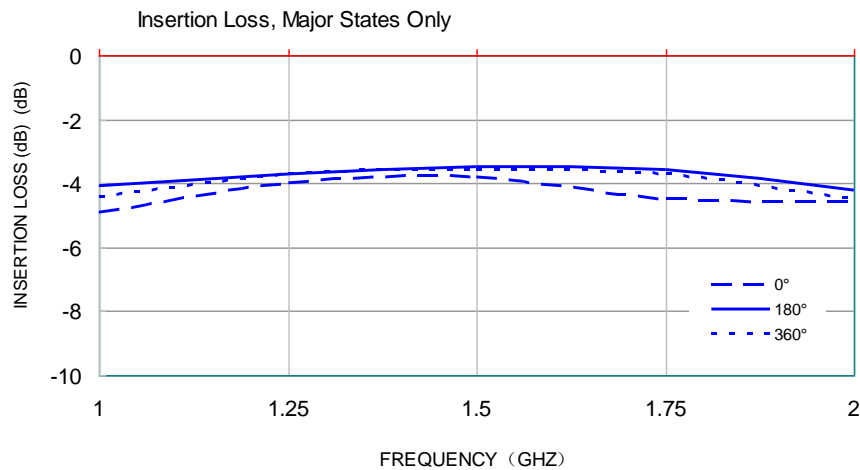
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50 Ω

1 to 2 GHz

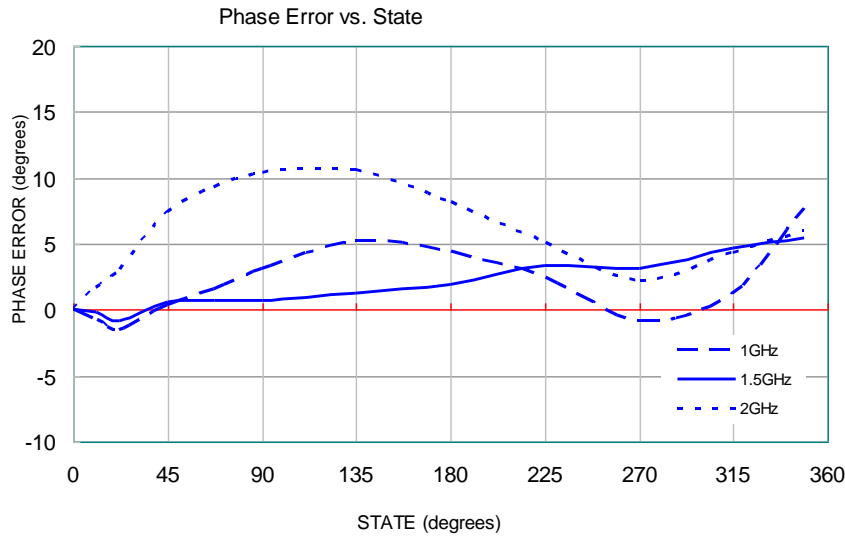
Control Voltage Input					Phase Shift (Degrees) RFIN – RFOUT
D4	D3	D2	D1	D0	
1	1	1	1	1	Reference*
1	1	1	1	0	11.25
1	1	1	0	1	22.5
1	1	0	1	1	45.0
1	0	1	1	1	90.0
0	1	1	1	1	180.0
0	0	0	0	0	348.7



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State	Voltage
Low(0)	0 to +0.5V
High(1)	+3 to +5V(Note 5)

