

北京天华中威科技有限公司

TSP-040080G3-VD-6 宽带移相器

技术说明书



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同轴

数字移相器

TSP-040080G3-VD-6

50 Ω

4 to 8 GHz

特性

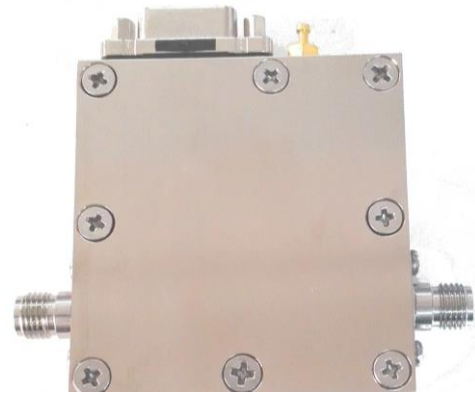
- 宽带: 4 ~ 8 GHz
- 低插入损耗: 6 dB
- 抑制 6Bit
- 相位变化范围360°

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	条件	最小值	典型值	最大值	单位
频率范围		4	-	8	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	-	2.5	-10	
位相位误差	全频率范围	-	+/- 5.0	-	deg
均方值误差		-2		+15	deg
输入压缩 P1dB		-	10	-	dBm
位控制电压		L/0V		H/5 V	V
电压/电流	5V	-	-	20	mA



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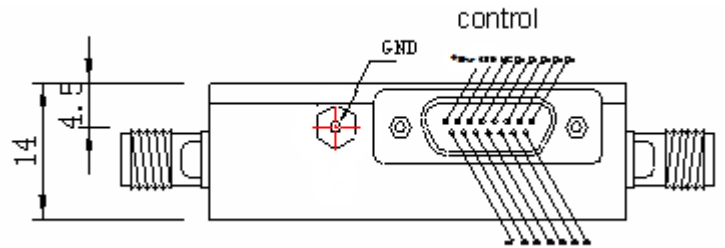
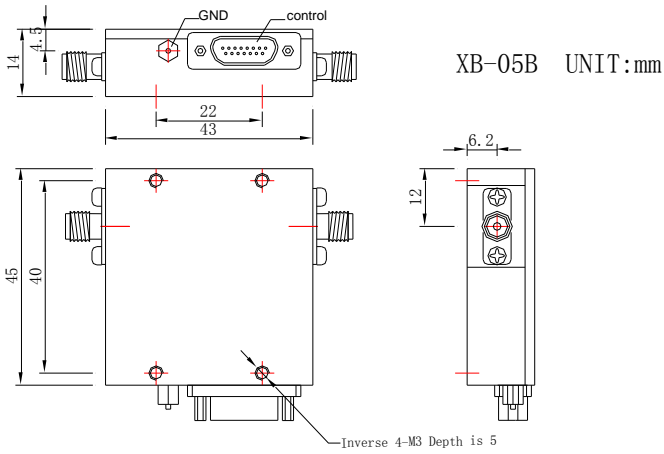
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外形尺寸图

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

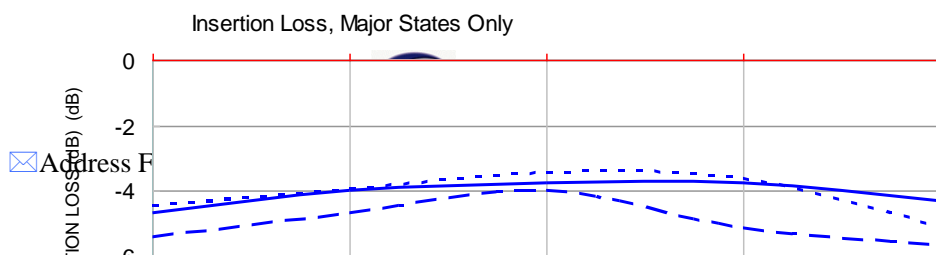
State	Voltage
Low(0)	0 to +0.5V
High(1)	+3 to +5V(Note 5)

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!

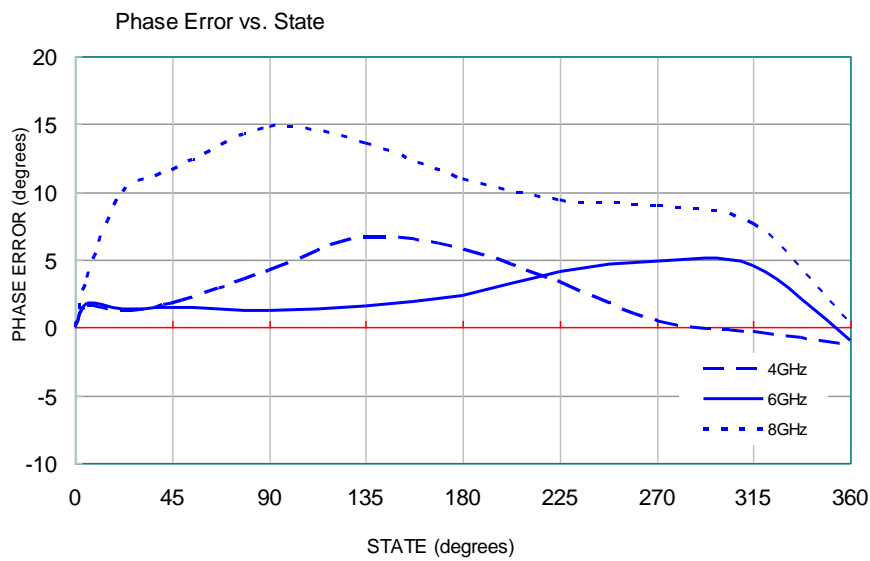
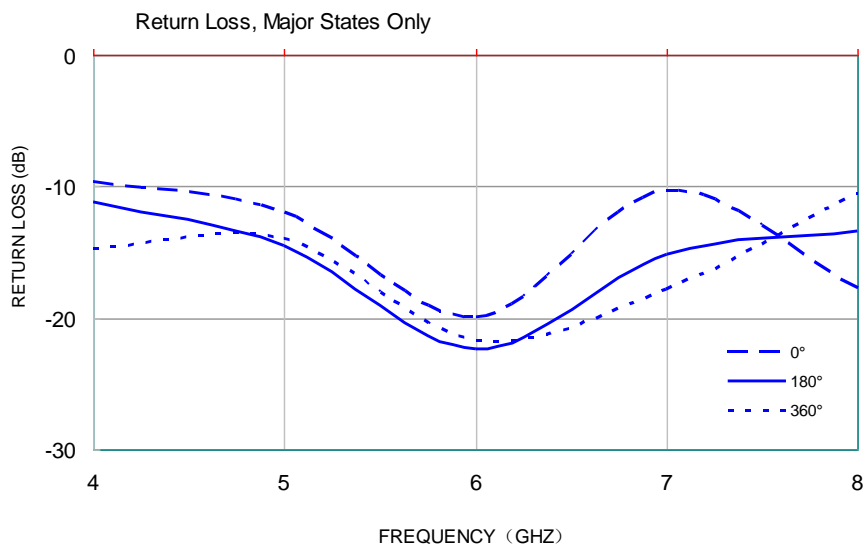
典型曲线图

Control Voltage Input						Phase Shift (Degrees) RFIN - RFout
D5	D4	D3	D2	D1	D0	
1	1	1	1	1	1	Reference*
1	1	1	1	1	0	5.625
1	1	1	1	0	1	11.25
1	1	1	0	1	1	22.5
1	1	0	1	1	1	45.0
1	0	1	1	1	1	90.0
0	1	1	1	1	1	180.0
0	0	0	0	0	0	354.375



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Theoretical Phase (Degree)	input power (dBm)	Insertion Loss (dB) at middle Frequency	Return Loss (dB) at middle Frequency	Phase Degree		
				4GHz	6GHz	8GHz
Ref	0			Ref	Ref	Ref
5.625	0			4.90	4.9	6.3
11.25	0			10.20	10	12.9
22.50	0			21.20	21.4	27
45.00	0			44.30	43.8	53
90.00	0			91.50	88.9	96.4
180.00	0			183.50	179.9	187.6
354.375	0			356.20	355.6	356



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