

# BT-0120

## 偏置器(Bias T)

50Ω 0.1-20GHz



### 特点

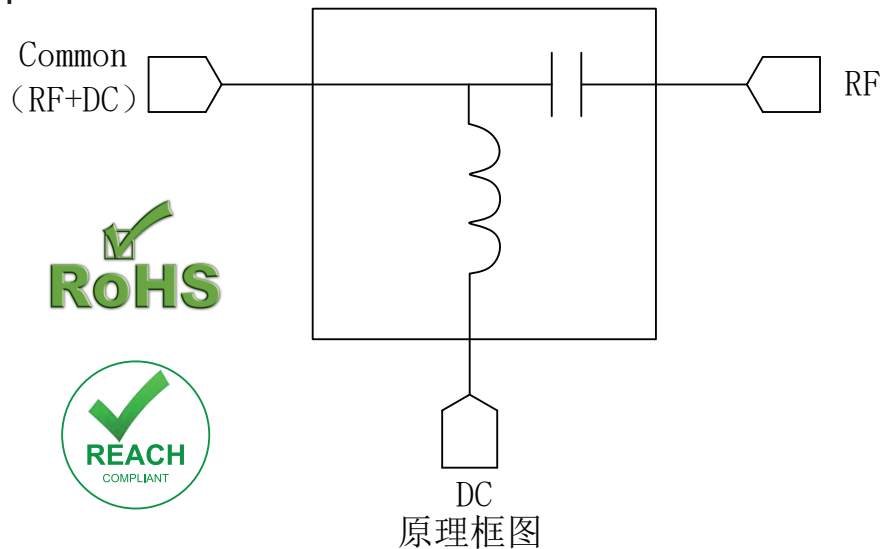
- 小尺寸: 3.0\*3.0\*1.45mm
- 宽带: 0.1-20GHz
- 高隔离

### 应用场合

- 4/5G基站通信系统
- WiFi、WLAN
- Zigbee、Bluetooth

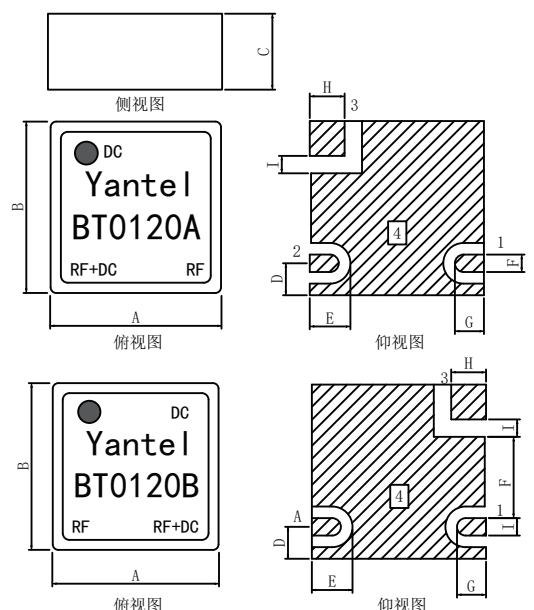
### 电性能参数(室温25°C)

参数	频率GHz	最小值	典型值	最大值	单位
频率范围		0.1		20	GHz
插入损耗	0.1-20		0.8	1.7	dB
公共端(RF+DC)回波损耗	0.1-20	10	15		dB
RF端回波损耗	0.1-20	10	15		dB
RF-DC隔离度	0.1-20		25		dB
直流电阻			1.5		Ω
耐压				20	V
耐电流				200	mA



### 尺寸及端口定义

A	B	C	D	E	F
3	3	1.45	0.55	0.7	0.3
G	H	I			
0.5	0.6	0.3			
端口	功能-封装A	端口	功能-封装B		
1	RF+DC Port	1	RF Port		
2	RF Poit	2	RF+DC Port		
3	DC Port	3	DC Port		
4	GND	4	GND		



### Yantel Corporation

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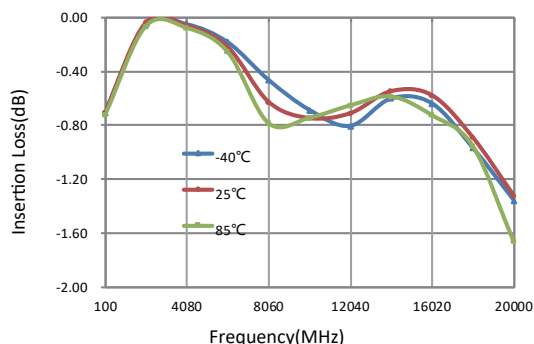
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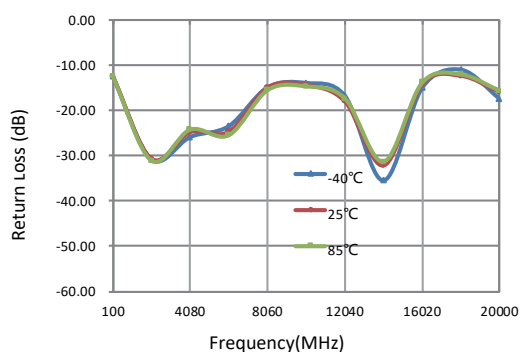
### 50Ω 0.1-20GHz



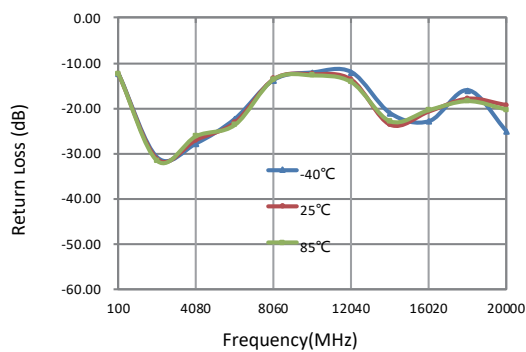
### 典型特性曲线



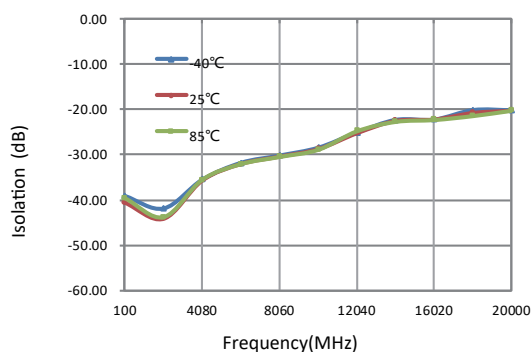
插入损耗



公共端(RF+DC)回波损耗



RF端回波损耗



RF-DC隔离度

插入损耗			
T(°C)	-40°C	25°C	85°C
F(GHz)			
0.1	-0.70	-0.70	-0.72
2.09	-0.04	-0.04	-0.06
4.08	-0.05	-0.06	-0.08
6.07	-0.18	-0.22	-0.26
8.06	-0.46	-0.63	-0.78
10.05	-0.69	-0.75	-0.74
12.04	-0.80	-0.71	-0.65
14.03	-0.60	-0.55	-0.59
16.02	-0.64	-0.58	-0.72
18.01	-0.97	-0.89	-0.95
20	-1.36	-1.32	-1.66

公共端(RF+DC)回波损耗			
T(°C)	-40°C	25°C	85°C
F(GHz)			
0.1	-12.43	-12.45	-12.45
2.09	-30.80	-30.77	-31.09
4.08	-25.86	-24.83	-24.23
6.07	-23.46	-24.76	-25.46
8.06	-14.91	-14.93	-15.50
10.05	-13.93	-14.39	-14.66
12.04	-16.79	-18.05	-17.34
14.03	-35.48	-32.25	-31.33
16.02	-14.93	-14.15	-13.80
18.01	-11.00	-12.35	-12.04
20	-17.42	-15.94	-15.62

RF端回波损耗			
T(°C)	-40°C	25°C	85°C
F(GHz)			
0.1	-12.47	-12.43	-12.43
2.09	-30.98	-31.34	-31.66
4.08	-27.82	-26.99	-26.13
6.07	-22.35	-23.11	-23.62
8.06	-13.74	-13.44	-13.54
10.05	-12.10	-12.41	-12.71
12.04	-12.04	-13.64	-14.22
14.03	-21.16	-23.65	-22.88
16.02	-22.90	-20.67	-20.37
18.01	-16.03	-17.83	-18.39
20	-25.21	-19.29	-20.28

RF-DC隔离度			
T(°C)	-40°C	25°C	85°C
F(GHz)			
0.1	-39.11	-40.57	-39.67
2.09	-41.87	-44.13	-43.90
4.08	-35.50	-35.66	-35.56
6.07	-31.78	-32.02	-32.07
8.06	-30.17	-30.38	-30.47
10.05	-28.43	-28.71	-28.86
12.04	-25.08	-25.18	-24.73
14.03	-22.28	-22.47	-22.64
16.02	-22.21	-22.17	-22.23
18.01	-20.10	-20.72	-21.35
20	-20.15	-20.23	-20.16

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Rev A0

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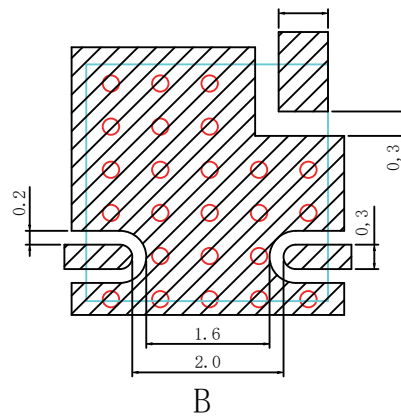
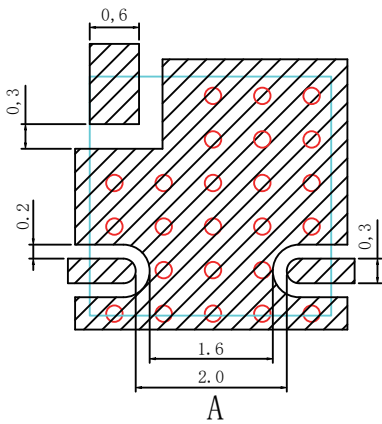
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### 推荐测试板布局



- RO4350双面测试板, 背面连续地平面。
- 微带信号线阻抗50Ω。
- 单位:mm



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