

# BT-0006S

## 偏置器(Bias T)

### Preliminary Datasheet

50Ω 0.002-6GHz



#### Maximum Ratings

Operating Temperature	-40°C to 125°C
Storage Temperature	-55°C to 100°C
RF Power	30dBm max.
Voltage at DC port	25V max.
Input Current	500mA



#### Features

- wideband, 2 to 6000 MHz
- 500mA DC current
- good isolation, 20dB typ.
- miniature surface mount 0.31"x0.25"
- aqueous washable

#### Applications

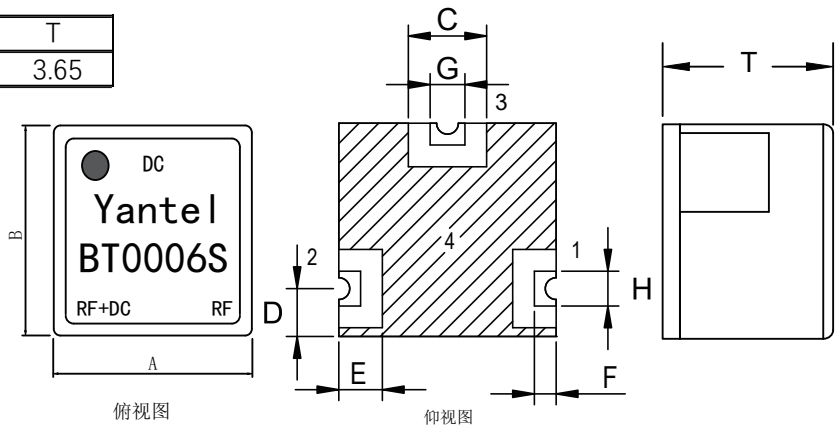
- biasing amplifiers
- biasing of laser diodes
- biasing of active antennas

#### Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range					MHz
Insertion Loss	2-3500	-	0.6	1.0	dB
	3500-4800	-	0.4	0.65	
	4800-6000	-	0.5	0.8	
Isolation	2-200	30	35	-	dB
	200-4800	20	23	-	
	4800-6000	17	20	-	
VSWR	2-4800	-	1.15	1.30	:1
	4800-6000	-	1.25	1.40	

#### Port definition

A	B	C	D	T
5.0	4.9	1.8	1.1	3.65
E	F	G	H	
1.0	0.5	0.8	0.8	
端口	功能-封装A			
1	RF+DC Port			
2	RF Poit			
3	DC Port			
4	GND			



#### Yantel Corporation

Add: No.308-322, 3F, Building 1, Juchuang Jingu Innovation Park, Wenyuan Road 35, Xili Street, Nanshan, Shenzhen China

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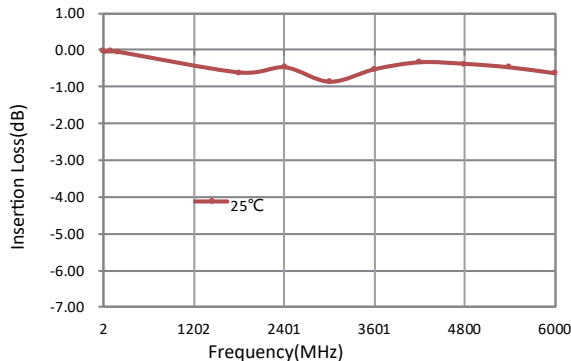
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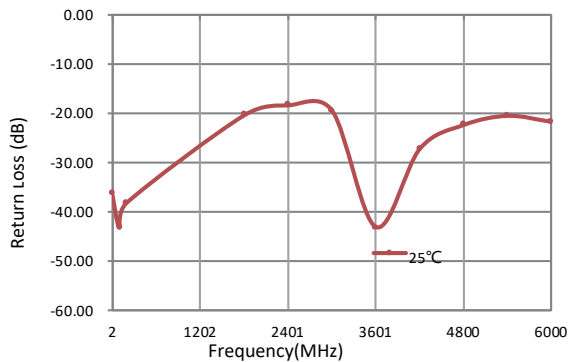
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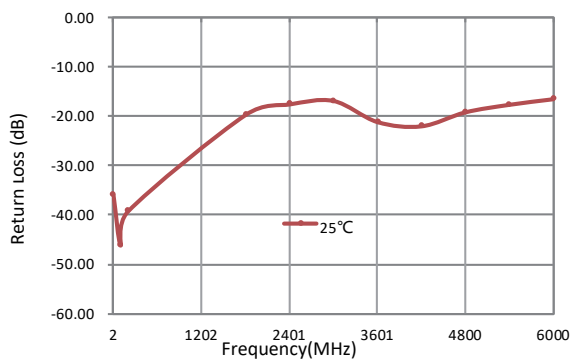
#### 典型特性曲线



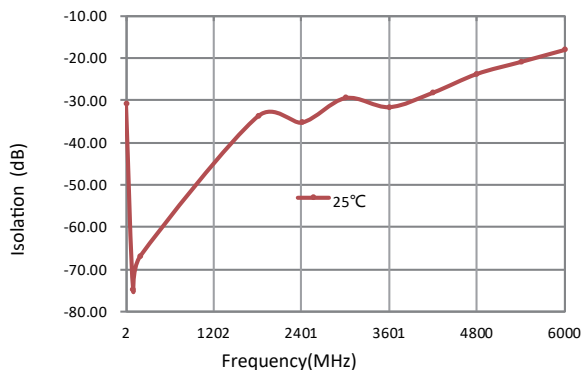
插入损耗



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)	25°C
F(GHz)	
2	-0.03
100	-0.02
200	-0.04
1807	-0.61
2406	-0.47
3005	-0.87
3604	-0.52
4203	-0.33
4802	-0.37
5401	-0.47
6000	-0.63

公共端 (RF+DC) 回波损耗	
T(°C)	25°C
F(GHz)	
2	-36.14
100	-43.20
200	-38.18
1807	-20.33
2406	-18.33
3005	-19.43
3604	-43.09
4203	-27.13
4802	-22.31
5401	-20.46
6000	-21.68

RF端回波损耗	
T(°C)	25°C
F(GHz)	
2	-35.83
100	-46.06
200	-39.21
1807	-19.62
2406	-17.50
3005	-16.80
3604	-21.08
4203	-21.95
4802	-19.11
5401	-17.59
6000	-16.45

RF-DC隔离度	
T(°C)	25°C
F(GHz)	
2	-30.72
100	-74.59
200	-66.76
1807	-33.74
2406	-35.23
3005	-29.42
3604	-31.57
4203	-28.14
4802	-23.72
5401	-20.89
6000	-18.05

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#### 推荐测试板布局

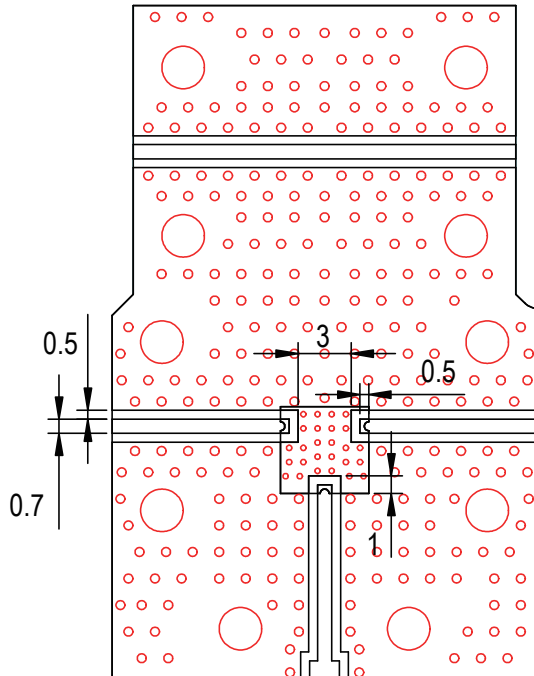


焊盘



器件

- RO4350B双面测试板，背面连续地平面。厚度13.3mil
- 微带信号线阻抗50Ω。
- 单位:mm



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