BT-0006S
(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 5.0X4.9mm.
- aqueous washable

Applications

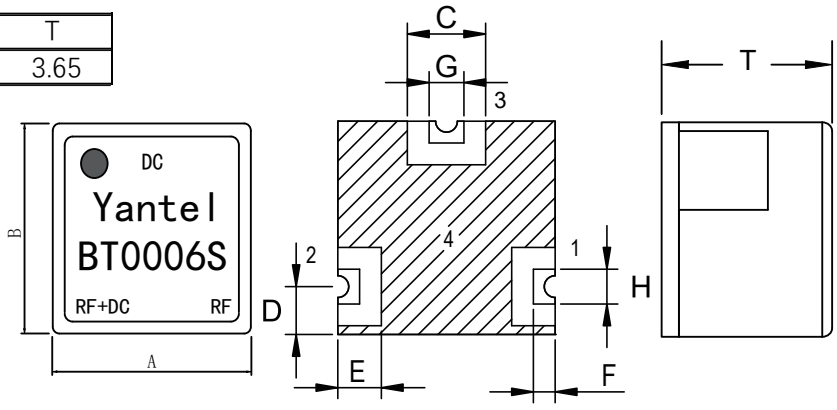
- biasing ampliffers
- biasing of laser diodes
- biasing of active antennas

Electrical Specifcations 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	
No	Ports			
1	RF+DC Port			
2	RF Poit			
3	DC Port			
4	GND			

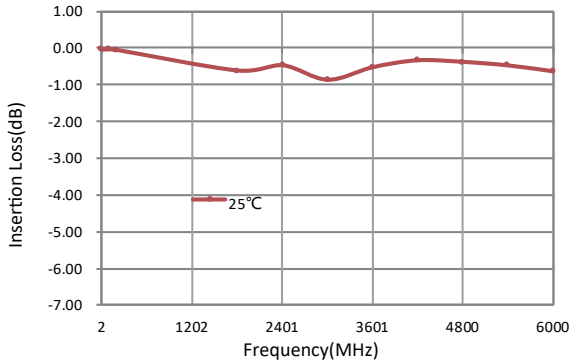


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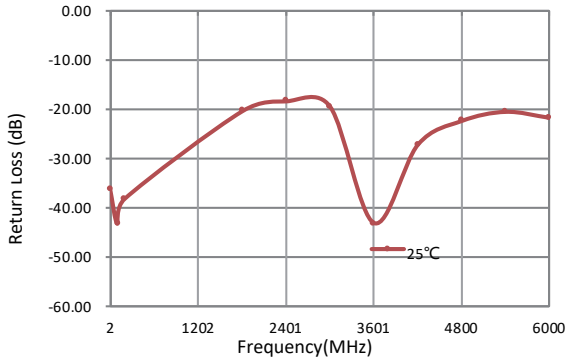
Add: No.308-322, 3F, Building 1, Juchuang Jingu Innovation Park, Wenyuan Road 35, Xili Street, Nanshan, Shenzhen China
Tel: 86-755-8355-1886 Fax: 86-755-8355-2533
For detailed performance specs & shopping online see Yantel web site : www.yantel-corp.com

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Insertion Loss

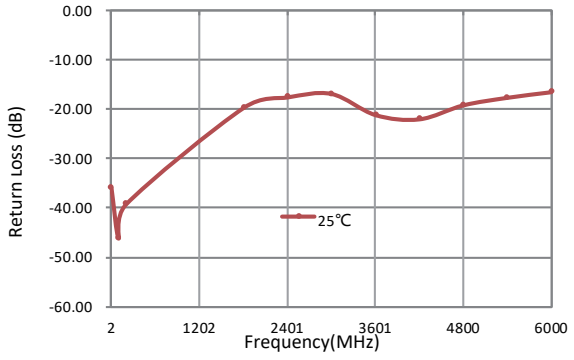


T(℃) / F(GHz)	25℃
2	-0.03
100	-0.02
200	-0.04
1807	-0.61
2406	-0.47
3005	-0.87
3604	-0.52
4203	-0.33
4802	-0.37
5401	-0.47
6000	-0.63



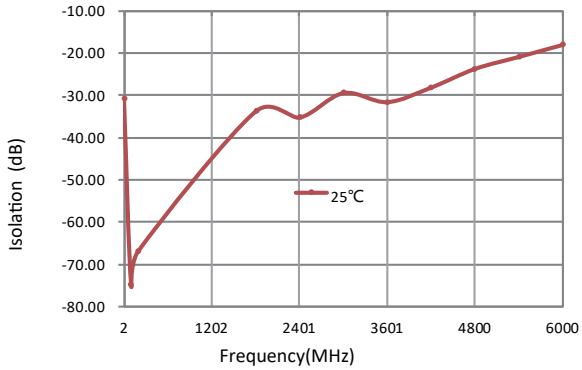
(RF+DC)

(RF+DC)	
T(℃) / F(GHz)	25℃
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

RF	
T(℃) / F(GHz)	25℃
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

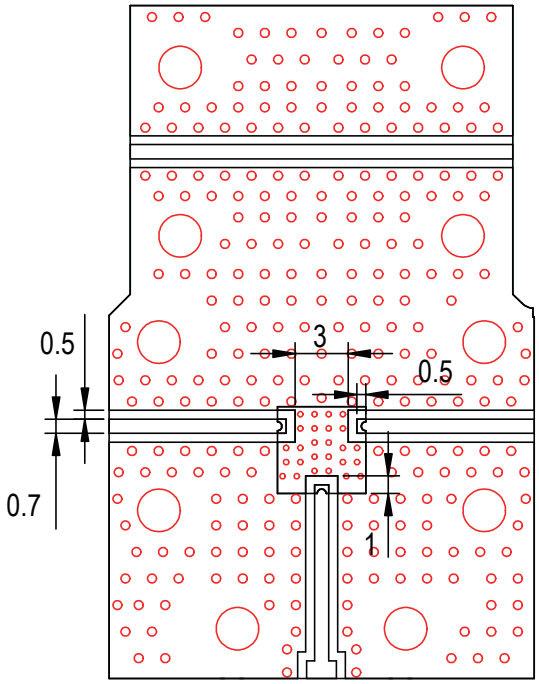
RF-DC	
T(℃) / F(GHz)	25℃
2	-30.72
100	-74.59
200	-66.76
1807	-33.74
2406	-35.23
3005	-29.42
3604	-31.57
4203	-28.14
4802	-23.72
5401	-20.89
6000	-18.05

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- RO4350B 13.3mil
- 50Ω。
- mm



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