

BT-0010

偏置器(Bias T)

50Ω 0.01-10GHz



特点

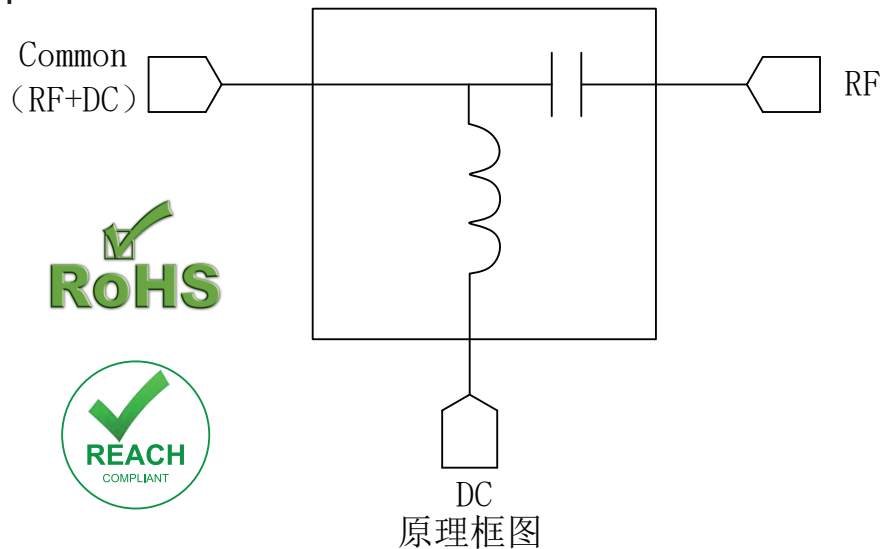
- 小尺寸: 3.0*3.0*1.45mm
- 宽带: 0.01-10GHz
- 高隔离

应用场合

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

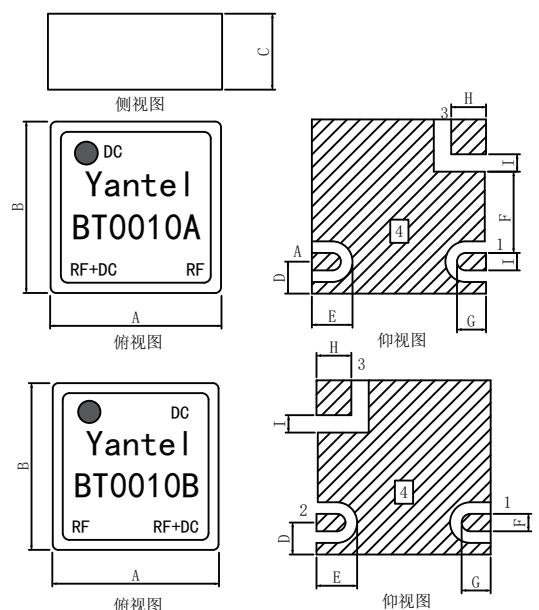
电性能参数(室温25°C)

| 参数 | 频率GHz | 最小值 | 典型值 | 最大值 | 单位 |
|----------------|---------|------|-----|-----|-----|
| 频率范围 | | 0.01 | | 10 | GHz |
| 插入损耗 | 0.01-10 | | 0.8 | 1.0 | dB |
| 公共端(RF+DC)回波损耗 | 0.01-10 | 8 | 15 | | dB |
| RF端回波损耗 | 0.01-10 | 8.5 | 15 | | dB |
| RF-DC隔离度 | 0.01-10 | | 25 | | dB |
| 直流电阻 | | | 1.5 | | Ω |
| 耐压 | | | | 20 | V |
| 耐电流 | | | | 220 | 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 | | |



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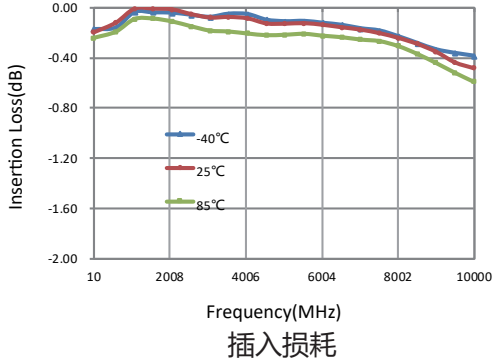
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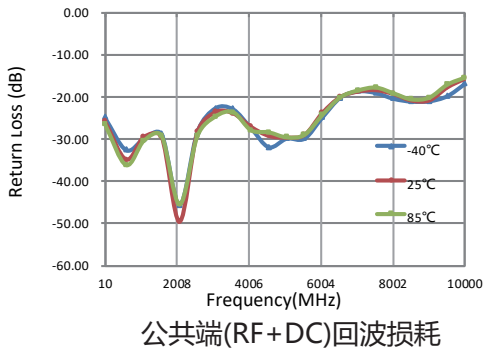
50Ω 0.01-10GHz



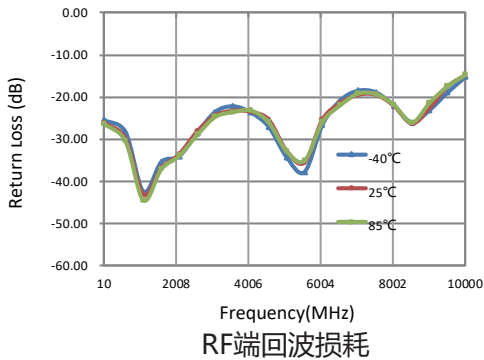
典型特性曲线



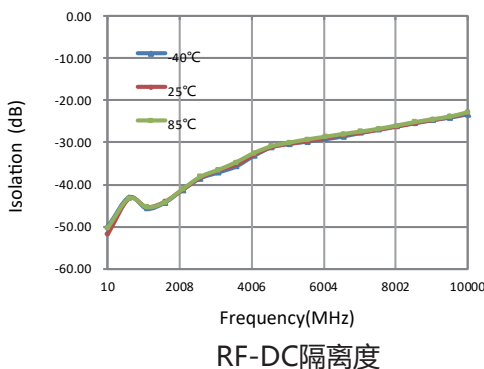
| 插入损耗 | | | |
|-----------------|-------|-------|-------|
| T(°C) F(MHz) | -40°C | 25°C | 105°C |
| 10 | -0.17 | -0.20 | -0.24 |
| 1090 | -0.04 | 0.00 | -0.09 |
| 2080 | -0.04 | -0.02 | -0.11 |
| 3070 | -0.07 | -0.08 | -0.18 |
| 4060 | -0.05 | -0.09 | -0.21 |
| 5050 | -0.11 | -0.13 | -0.22 |
| 6040 | -0.12 | -0.14 | -0.22 |
| 7030 | -0.17 | -0.18 | -0.25 |
| 8020 | -0.23 | -0.24 | -0.31 |
| 9010 | -0.33 | -0.35 | -0.44 |
| 10000 | -0.38 | -0.48 | -0.59 |



| 公共端(RF+DC)回波损耗 | | | |
|-----------------|--------|--------|--------|
| T(°C) F(MHz) | -40°C | 25°C | 105°C |
| 10 | -24.77 | -25.70 | -26.41 |
| 1090 | -29.83 | -29.44 | -30.31 |
| 2080 | -45.57 | -49.61 | -45.44 |
| 3070 | -22.57 | -23.54 | -24.60 |
| 4060 | -27.25 | -27.04 | -27.82 |
| 5050 | -29.76 | -29.57 | -29.52 |
| 6040 | -24.74 | -23.72 | -24.21 |
| 7030 | -18.53 | -18.63 | -18.40 |
| 8020 | -20.30 | -19.23 | -19.11 |
| 9010 | -20.87 | -20.71 | -20.08 |
| 10000 | -16.72 | -15.53 | -15.34 |



| RF端回波损耗 | | | |
|-----------------|--------|--------|--------|
| T(°C) F(MHz) | -40°C | 25°C | 105°C |
| 10 | -25.45 | -26.08 | -26.29 |
| 1090 | -42.52 | -43.18 | -44.50 |
| 2080 | -34.08 | -33.51 | -33.92 |
| 3070 | -23.53 | -24.38 | -24.68 |
| 4060 | -23.65 | -23.46 | -23.13 |
| 5050 | -34.30 | -32.75 | -32.83 |
| 6040 | -26.53 | -25.30 | -25.84 |
| 7030 | -18.44 | -19.44 | -19.09 |
| 8020 | -22.06 | -22.04 | -21.81 |
| 9010 | -23.01 | -22.44 | -21.23 |
| 10000 | -15.15 | -14.70 | -14.62 |



| RF-DC隔离度 | | | |
|-----------------|--------|--------|--------|
| T(°C) F(MHz) | -40°C | 25°C | 105°C |
| 10 | -49.95 | -51.85 | -50.30 |
| 1090 | -45.72 | -45.46 | -45.48 |
| 2080 | -41.25 | -41.31 | -41.13 |
| 3070 | -37.15 | -36.72 | -36.58 |
| 4060 | -33.19 | -32.97 | -32.57 |
| 5050 | -30.34 | -30.33 | -30.09 |
| 6040 | -29.26 | -28.93 | -28.70 |
| 7030 | -27.76 | -27.66 | -27.47 |
| 8020 | -26.16 | -26.24 | -26.04 |
| 9010 | -24.73 | -24.70 | -24.55 |
| 10000 | -23.31 | -23.01 | -22.85 |

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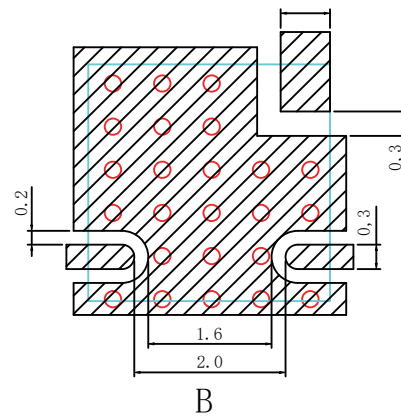
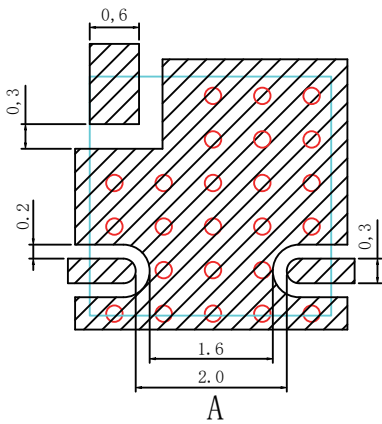
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推荐测试板布局



- 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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