LTCC Balun Transformer

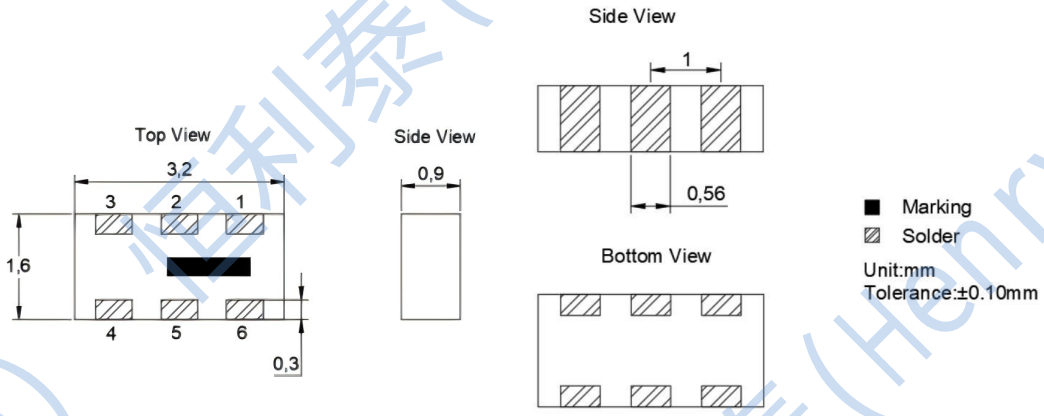
低温共烧陶瓷 巴伦变压器

产品型号（Product model）：HM-B3216-1-2.4G-1

一、电气性能 Electrical Specifications（TAMB=25°C）

No.	项目		指标
1	通带频率 Passband Frequency		1000~2400MHz
2	阻抗比 Impedance Ratio		50Ω/50Ω=1:1
3	插损 Insertion Loss Above 3dB	1000~2400MHz	≤1.5dB
4	不平衡端回波损耗 Return Loss at Unbalanced Port	1000~2400MHz	≥10dB
5	振幅不平衡度 Amplitude Difference	1000~2400MHz	≤0.8dB
6	相位不平衡度 Phase Difference	1000~2400MHz	≤±10°
7	共模抑制度 CMRR	1000~2400MHz	≥15dB
8	工作温度 Operating Temperature		-40℃ ~ +85℃
9	存储温度 Storage Temperature		-40℃ ~ +85℃
10	最大输入功率 Input Power max		3W（CW）

二、外形尺寸 Outline Drawing（Unit：mm）



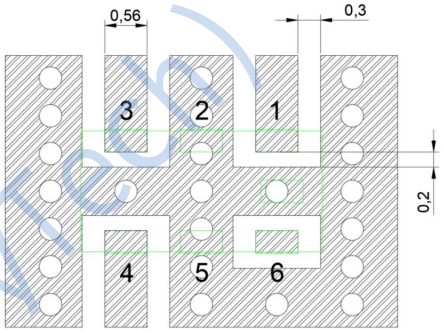
三、引脚定义 Pin Connections

不平衡端 Unbalance Port（PRIMARY DOT ）	1
接地 GND or DC feed + RF GND	2
平衡端①Balance Port（SECONDARY DOT）	3
平衡端②Balance Port（SECONDARY）	4
接地 GND	5
不连接 NC	6

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四、焊盘尺寸 PCB Land Pattern

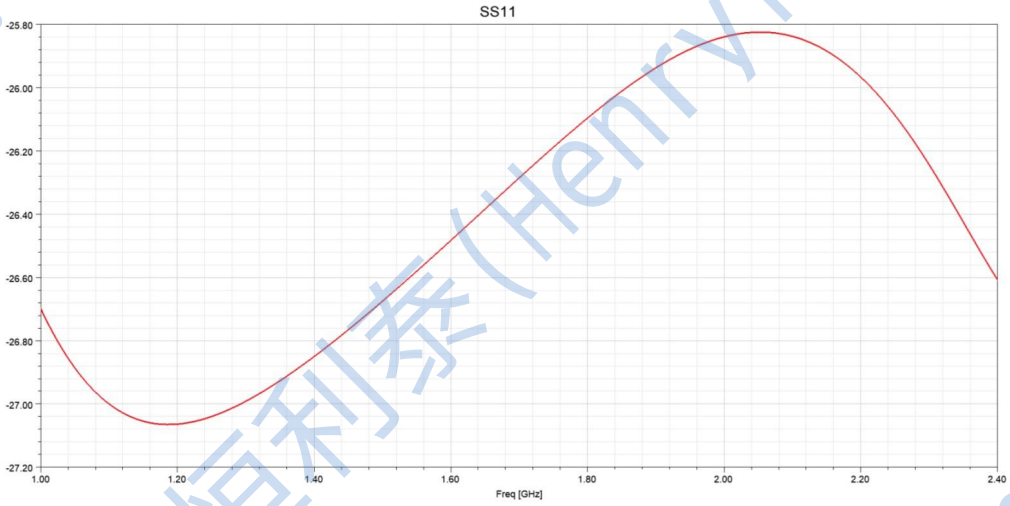


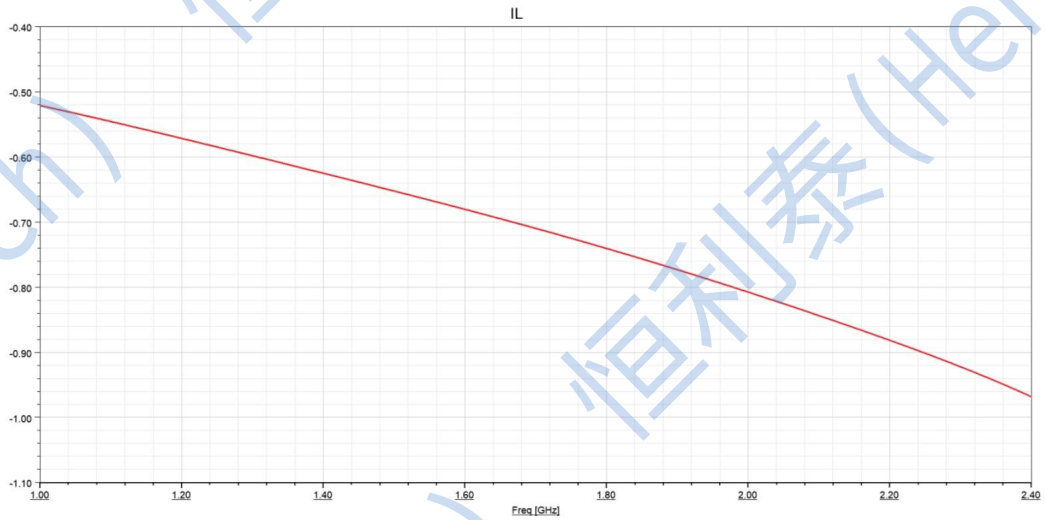
注意 Note：

1. 单位 Unit: mm

2. 线宽应设计为匹配50Ω特性阻抗，具体取决于PCB材料和厚度。图中显示了RO4350B(DK3.48)的共面波导参数，介电厚度为0.272毫米。
Line width to be design to match 50Ω characteristic impedance, depending on PCB material and thickness Coplanar waveguide parameters are shown for RO4350B (DK 3.48) with dielectric thickness 0.272mm

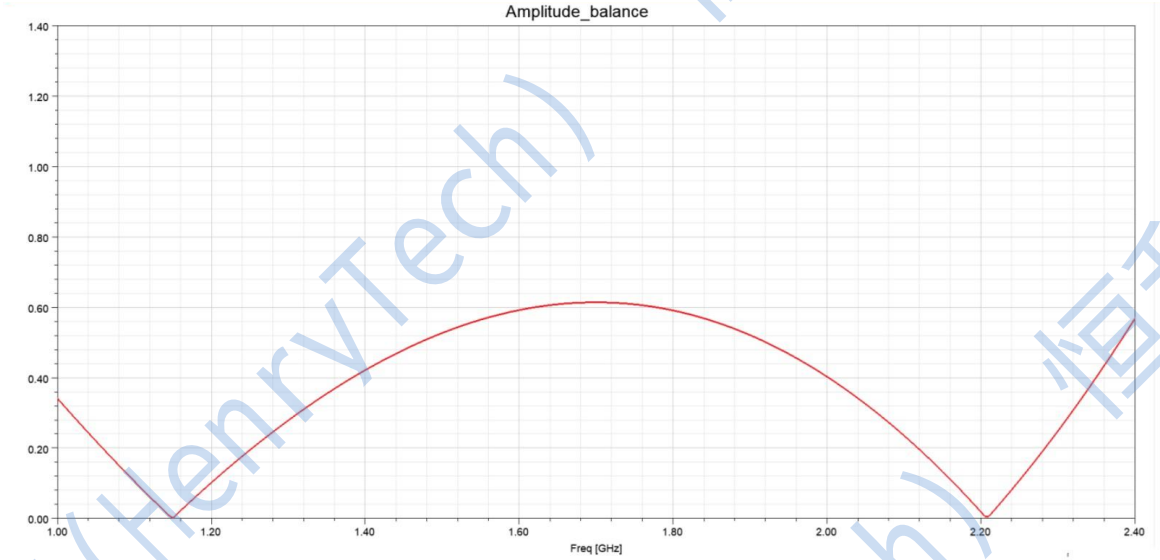
五、测试曲线 Test Curve

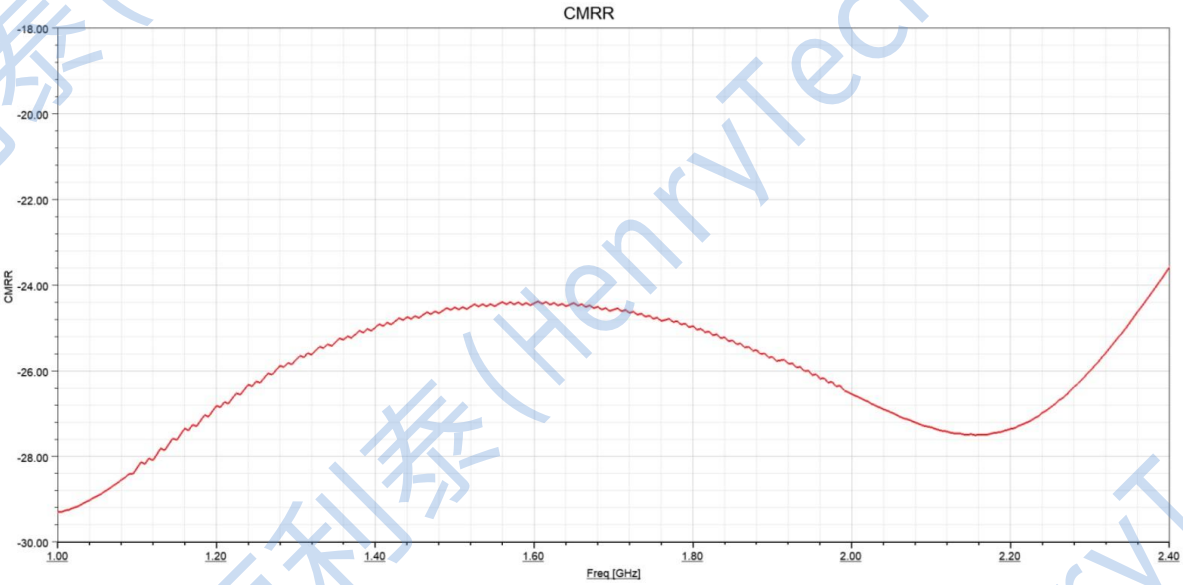


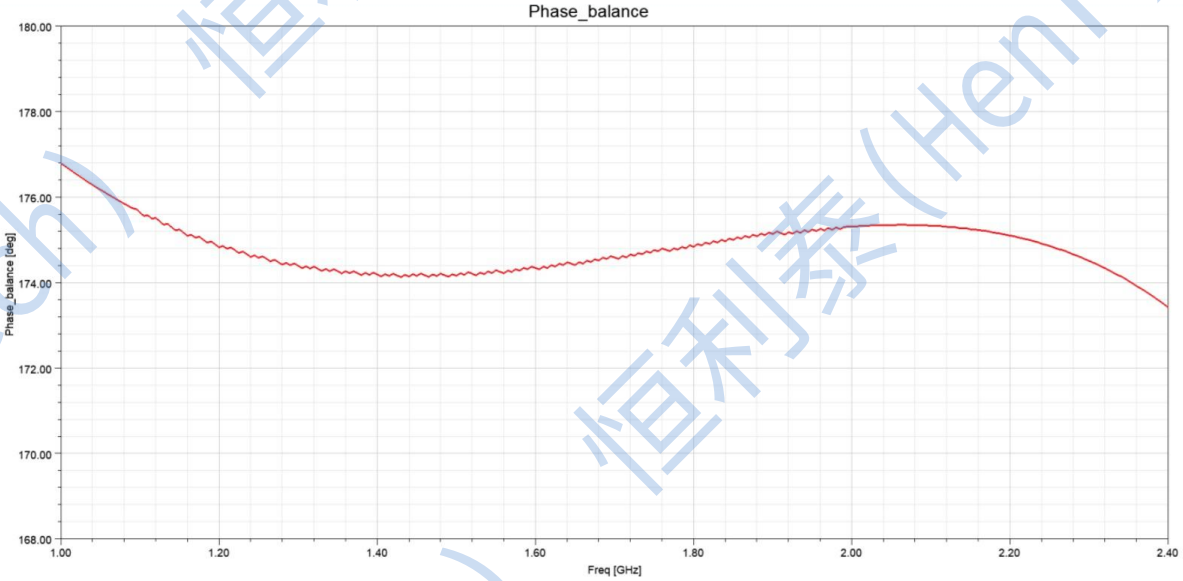


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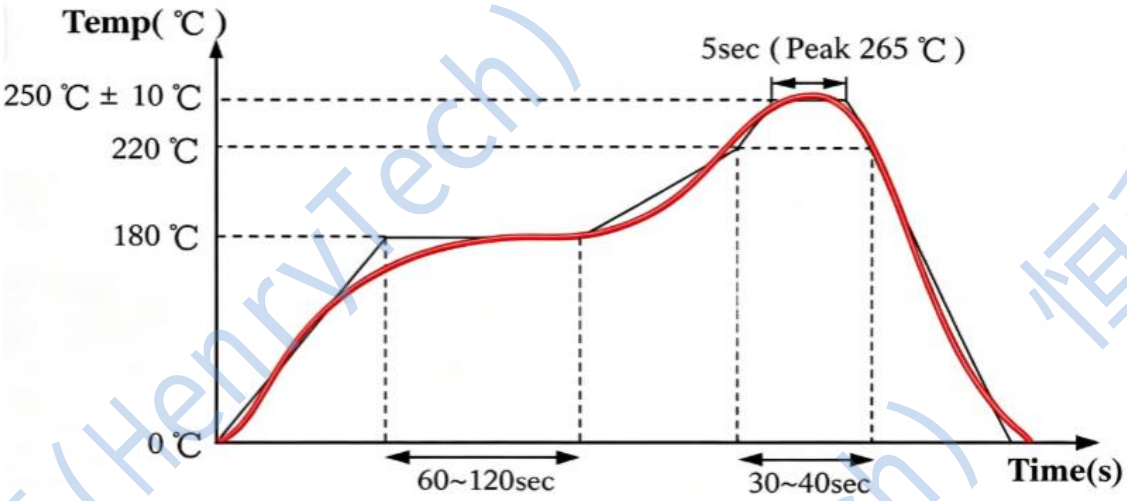




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六、回流焊温度 Reflow Soldering Temperature



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