LTCC Balun Transformer

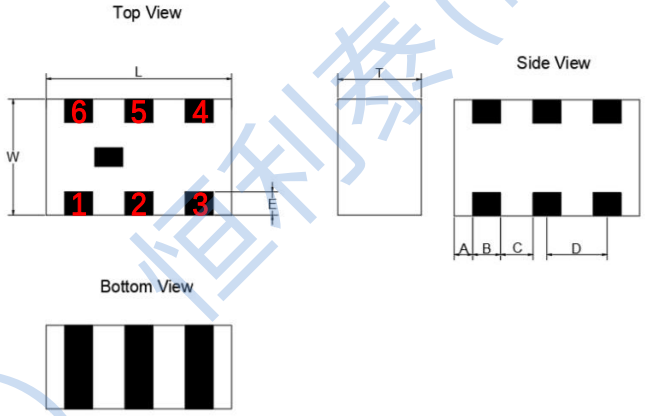
低温共烧陶瓷 巴伦变压器

产品型号（Product model）：HM-B2012-2.7-3.6G-4

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

No.	项目		指标
1	通带频率 Passband Frequency		2700~3600MHz
2	阻抗比 Impedance Ratio		50Ω/200Ω=1:4
3	插损 Insertion Loss Above 3dB	2700~3600MHz	≤0.8dB
4	不平衡端回波损耗 Return Loss at Unbalanced Port	2700~3600MHz	≥10dB
5	振幅不平衡度 Amplitude Difference	2700~3600MHz	≤0.7dB
6	相位不平衡度 Phase Difference	2700~3600MHz	≤±10°
7	共模抑制度 CMRR	2700~3600MHz	≥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）



符号 Symbol	尺寸（单位mm） Dimension (mm)
L	2.00 ± 0.15
W	1.25 ± 0.15
T	0.85 ± 0.15
A	0.20 ± 0.10
B	0.30 ± 0.10
C	0.35 ± 0.10
D	0.65 ± 0.10
E	0.25 ± 0.10

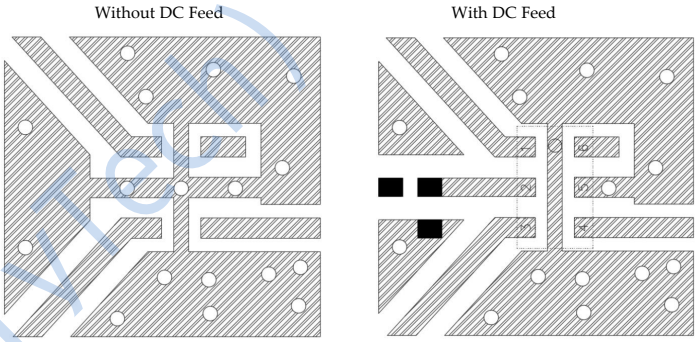
三、引脚定义 Pin Connections

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

Tel:+86-28-85589664
E-mail:428858430@qq.com
Web:www.hltchips.com
Room 1401, 14th Floor, Building 5, Huaxi Science and Technology Innovation Center, No.50, Shuxi Road, Jinniu District, Chengdu City

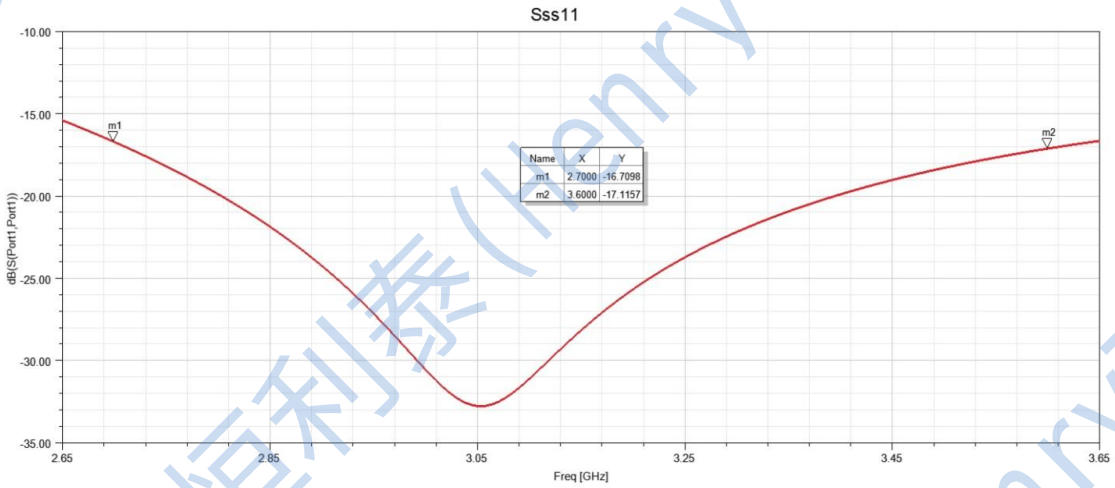
LTCC Balun Transformer
低温共烧陶瓷 巴伦变压器

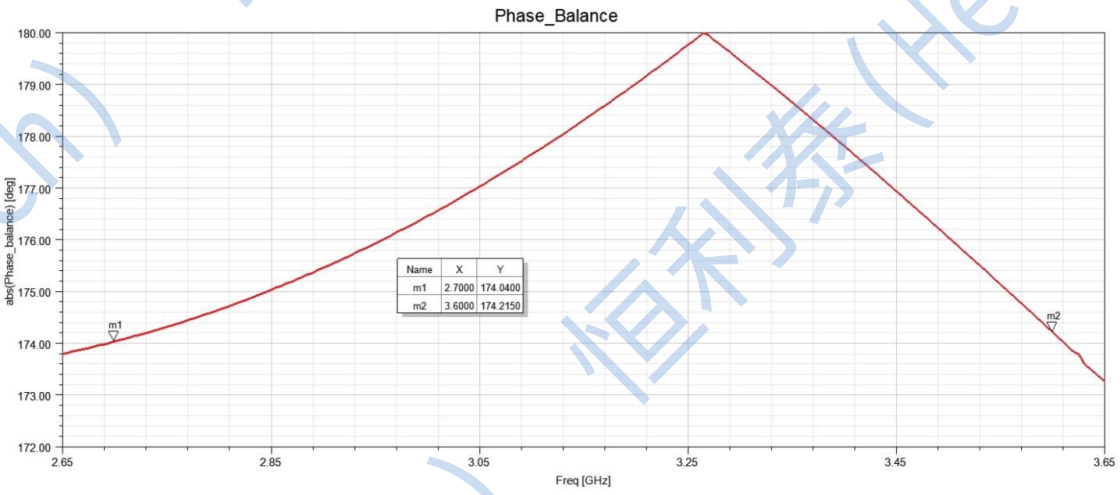
四、焊盘尺寸 PCB Land Pattern



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。
Line width to be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness

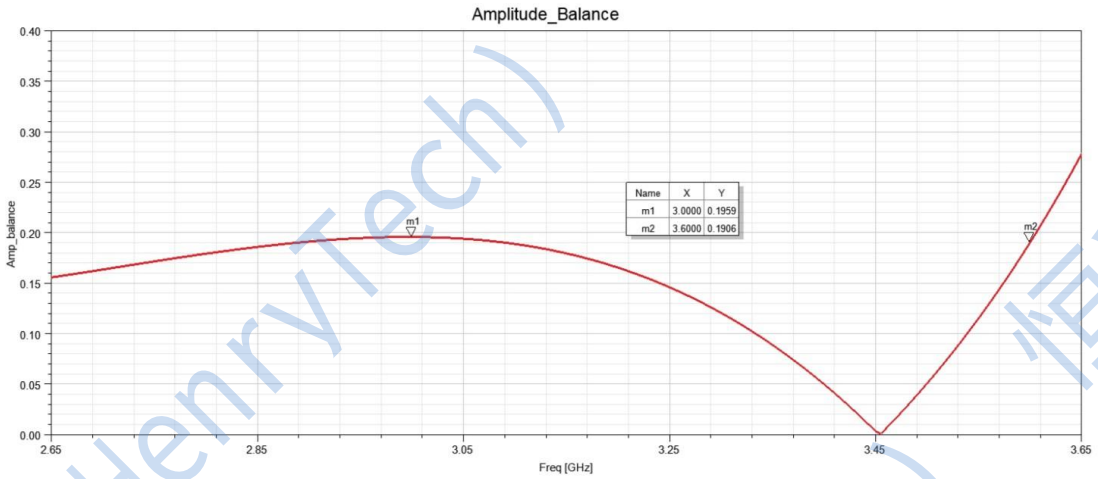
五、测试曲线 Test Curve @ 25℃

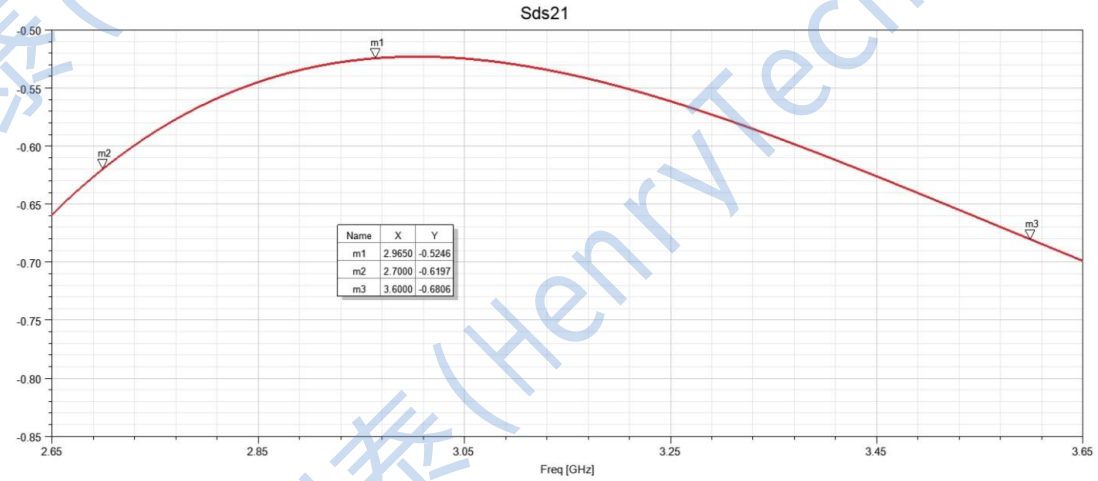


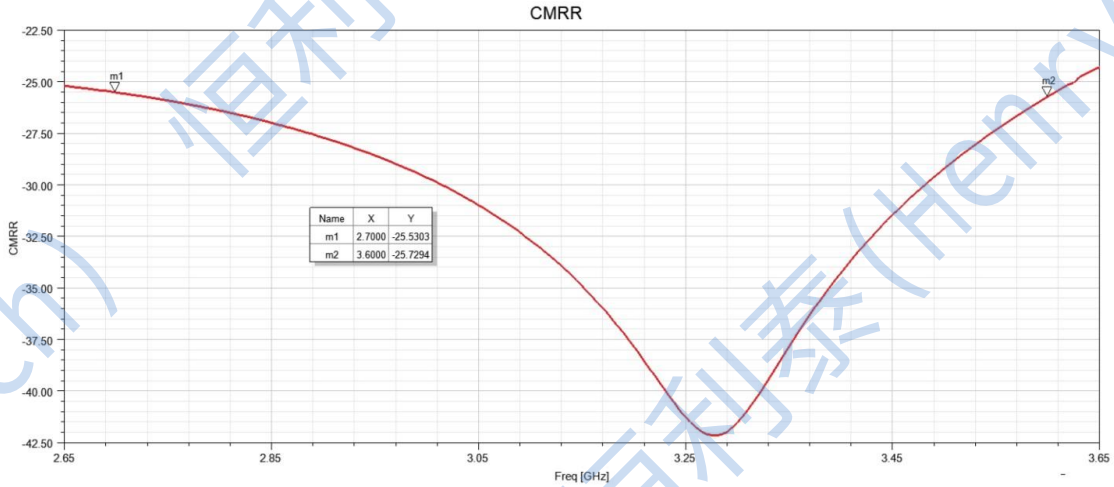


Tel:+86-28-85589664
E-mail:428858430@qq.com
Web:www.hltchips.com
Room 1401, 14th Floor, Building 5, Huaxi Science and Technology Innovation Center, No.50, Shuxi Road, Jinniu District, Chengdu City

LTCC Balun Transformer
低温共烧陶瓷 巴伦变压器



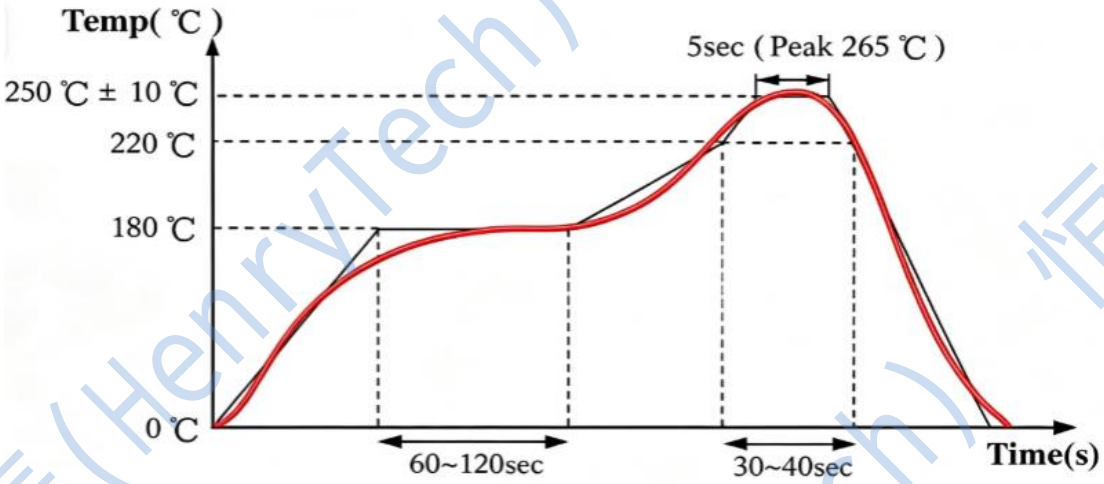




Tel:+86-28-85589664
E-mail:428858430@qq.com
Web:www.hltchips.com
Room 1401, 14th Floor, Building 5, Huaxi Science and Technology Innovation Center, No.50, Shuxi Road, Jinniu District, Chengdu City

LTCC Balun Transformer
低温共烧陶瓷 巴伦变压器

六、回流焊温度 Reflow Soldering Temperature



Tel:+86-28-85589664
E-mail:428858430@qq.com
Web:www.hltchips.com
Room 1401, 14th Floor, Building 5, Huaxi Science and Technology Innovation Center, No.50, Shuxi Road, Jinniu District, Chengdu City