

Component Samples Evaluation Report

零部件确认报告

Kevin

VJ2020-1038-A

报告编号 Report NO:

Part Number:

1B99A0044

品 号:

Description:

贴片天线 ACAG0201-2450-T

品 名:

Spec :

Abracon

规 格:

Picture NO:

图 号:

Manufacturer:

Abracon

制造商:

Manufacturer

P/N:

ACAG0201-2450-T

制造商型号:

Supplier:

艾睿

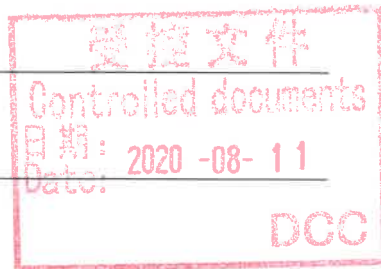
供应商:

Version:

版 本:

Issue Date :

发行日期:



零件工程 CE	研发部 R&D	质量部 QM	工程部 ENG
/	Kevin Li Jul. 28, 20 2020.7.30	/	/



Ledlenser Corporation Ltd.

LL-QP-018-04-B

阳江纳谷科技有限公司

Component Samples Evaluation Report

零部件确认报告

报告编号 Report NO: *V02020-1038-150*

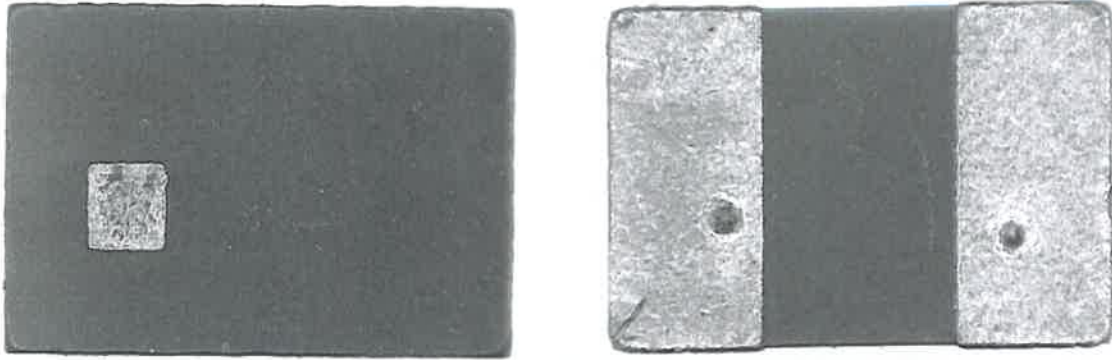
送样目的 Purposes	<input checked="" type="checkbox"/> 新产品 New products <input type="checkbox"/> 替代 Replace <input type="checkbox"/> 工程变更 ECN <input type="checkbox"/> 其他 Others		
	原因 Reason: 新项目承认		
送样人 Send by	Linda	审核人 Check by	<i>张云云 (W)</i>
送样时间 Submit date	2020-06-28	送检数量 Samples Qty.	10pcs
检验内容 Check content			
No	项目 Items	检验结论 Checking result	备注 Remark
1	外观 Appearance	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG	<i>No marking</i>
2	规格(尺寸/参数) Dimension/Parameter	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG	
3	材质 Material	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG	
4	装配 Assembly	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG	
5	性能测试 Function Test	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG	<i>已通过试产, 性能OK</i>
6	可靠性 Reliability Test	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG	
7	安规检查 Safety	<input type="checkbox"/> OK <input type="checkbox"/> NG	<i>N/A</i>
8	ROHS/REACH	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG	
9	试产结果 Trial-run Result	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG	
10	其他 Others	<input type="checkbox"/> OK <input type="checkbox"/> NG	
文件/样板分发 Doc/Samples Distribute:	<input checked="" type="checkbox"/> 采购 Purchase <input checked="" type="checkbox"/> 车间 IPQC	<input checked="" type="checkbox"/> IQC	<input checked="" type="checkbox"/> 开发部 R&D
综合意见 Conclusion:	<input checked="" type="checkbox"/> 接受 Accepted <input type="checkbox"/> 拒收 Reject		
备注 Remark:			

受控文件 N/A
 Controlled documents
 日期: 2020-08-11
 Date:
 DCC

IC test report

part number 品号	1B99A0044	description 品名	贴片天线 ACAG0201-2450-T
manufacturer 原厂制造商	Abracon	Manufacturer P/N: 原厂型号	ACAG0201-2450-T
supplier 供应商	艾睿	Tester/test date 测试日期	2020/7/28

图片photo



A 初步检查 preliminary review

1. 测试条件 Test Condition

- 1) 环境温度/湿度 Temperature: 25℃ ; 25 to 85% RH
- 2) 仪器 Instrument: 游标卡尺 vernier caliper/ 投影测试仪 projection tester/ 目视 visual
- 3) 样品数量 Sample Quantity: 5 pcs
- 4) 判断标准 Judgment Standard: 参考规格书 Refer to the specification

2. 测试数据 Test data

1) 外观检查 Appearance Check

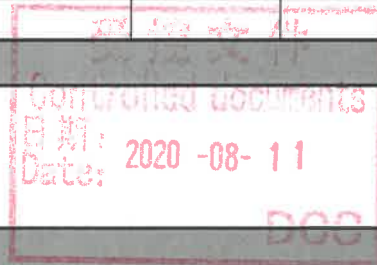
Sample No.	标识Marking						
1	No marking						

2) Dimension 尺寸

测试项目 test item	1.80~2.20mm	1.05~1.45mm	0.50~0.70mm				
1	2.04	1.29	0.62				
2	2.01	1.28	0.64				
3	2.01	1.25	0.62				
4	2.01	1.23	0.60				
5	2.01	1.26	0.63				
	OK	OK	OK				

B 可靠性测试 Reliability Test

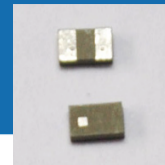
新产品ML6 Connect WL试产OK



C 结论 Conclusion

R&D确认应用OK,
试产OK,
尺寸测试OK。

Low profile Compact 2.4 GHz Ceramic Chip Antenna



ACAG0201-2450-T

2.0 x 1.25 x 0.6mm



RoHS/RoHS II Compliant

MSL = 1

FEATURES

- Gain of 2.7dBi
- VSWR ≤ 2.0
- Miniature form factor 2.0 x 1.25 x 0.6mm
- Made using LTCC technology (low temperature co-fired ceramic)
- Omni-directional

APPLICATIONS

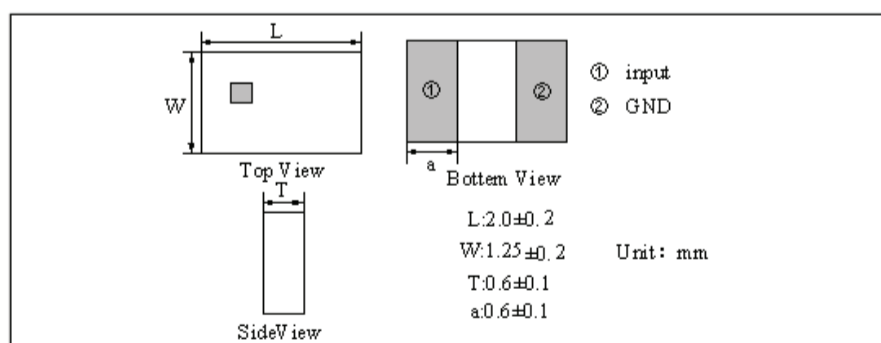
- IoT and wearable
- Wi-Fi
- Bluetooth/BLE
- ISM band

ELECTRICAL CHARACTERISTICS

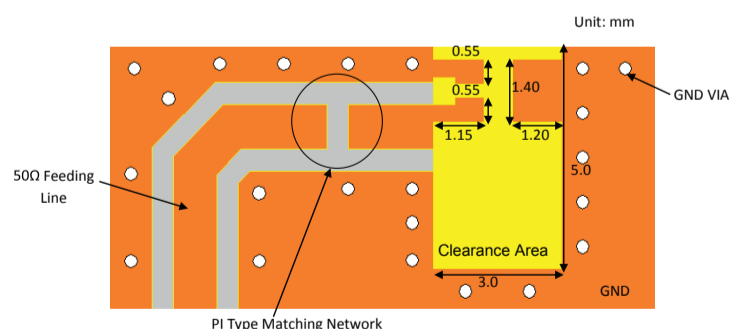
Item	Specification
Centre Frequency (After matching)	2450 MHz
Bandwidth	65 MHz typ
VSWR	≤ 2.0
Impedance	50 Ω
Gain	2.7 dBi
Azimuth	Omni-directional
Polarization	Linear
Operating Temperature range	-40°C ~ + 85°C

MECHANICAL DIMENSIONS (mm)

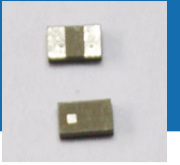
Antenna Dimensions



Layout Dimensions



Low profile Compact 2.4 GHz Ceramic Chip Antenna



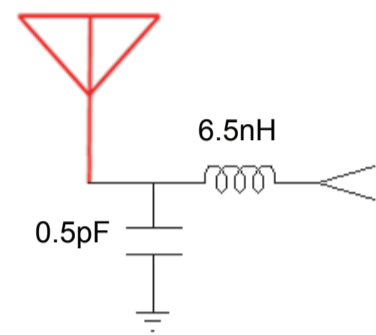
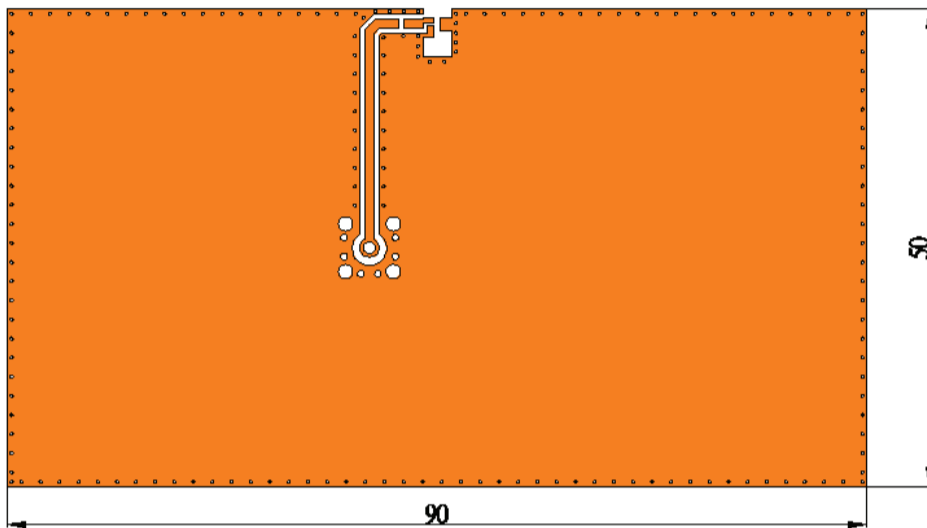
ACAG0201-2450-T



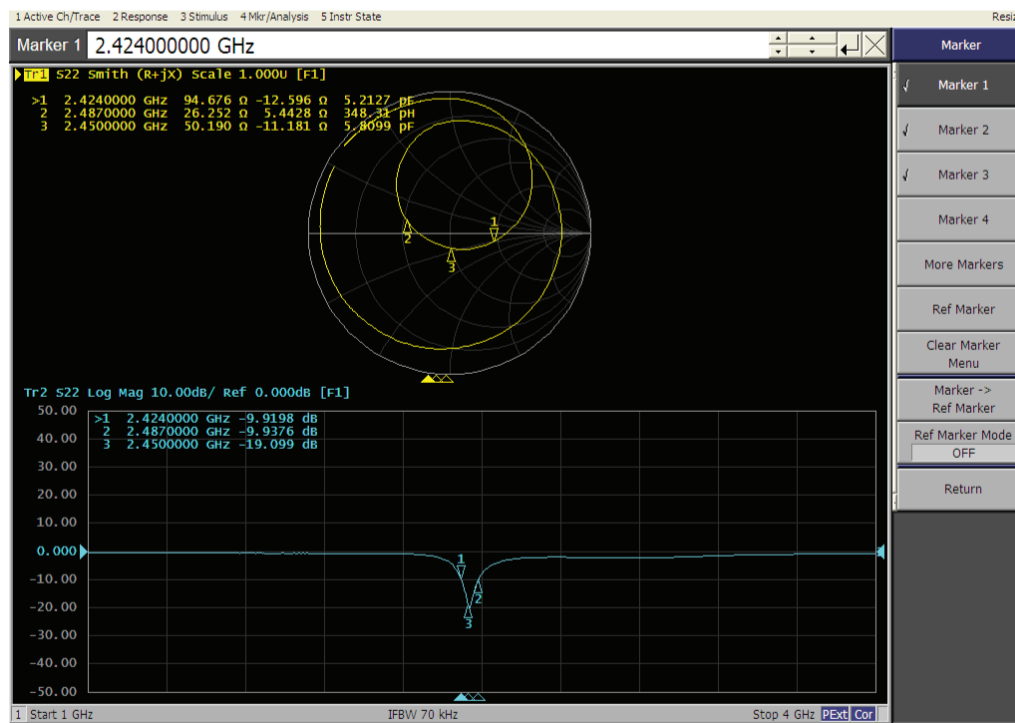
2.0 x 1.25 x 0.6mm
RoHS/RoHS II Compliant

MSL = 1

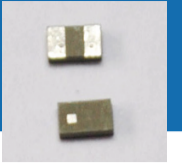
EVALUATION BOARD AND MATCHING CIRCUITS



ANTENNA RESPONSE – SMITH CHART AND RETURN LOSS S11



Low profile Compact 2.4 GHz Ceramic Chip Antenna



ACAG0201-2450-T

2.0 x 1.25 x 0.6mm

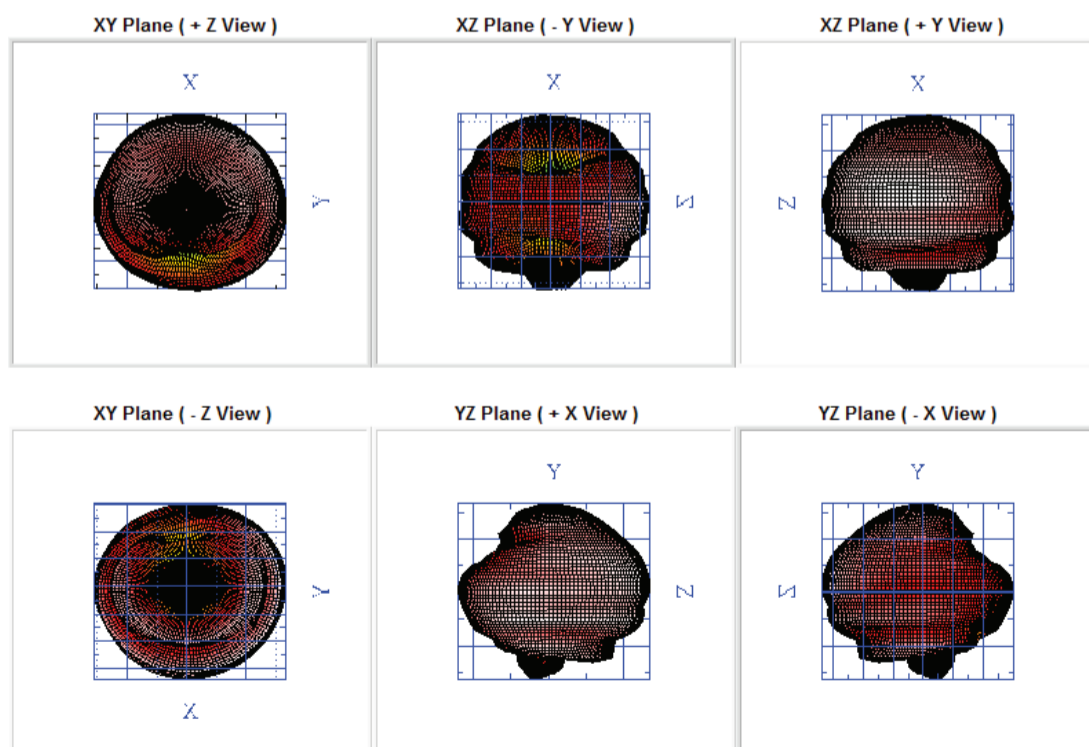
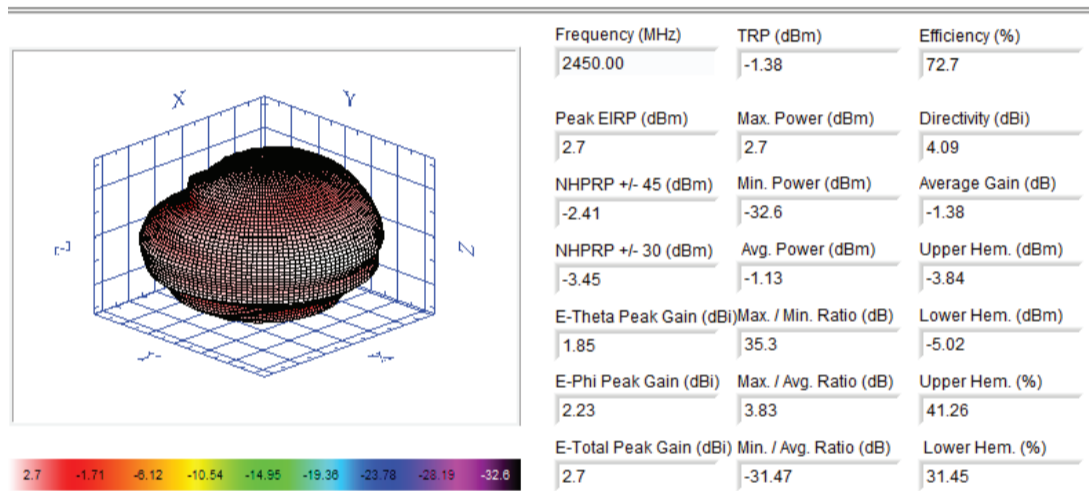
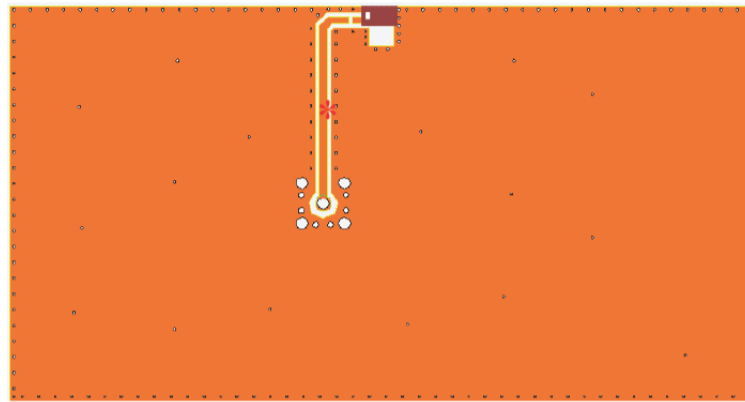
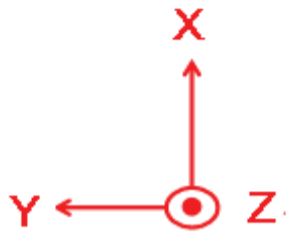


RoHS/RoHS II Compliant

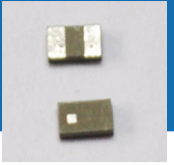
MSL = 1

RADIATION PATTERNS

Coordinates



Low profile Compact 2.4 GHz Ceramic Chip Antenna



ACAG0201-2450-T

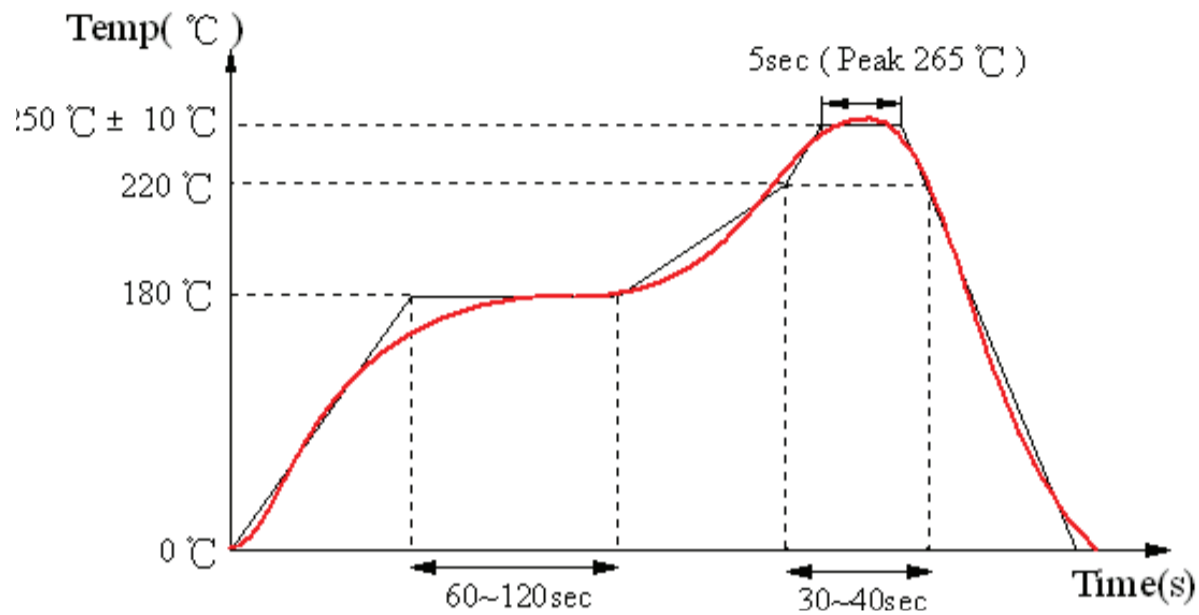
2.0 x 1.25 x 0.6mm



RoHS/RoHS II Compliant

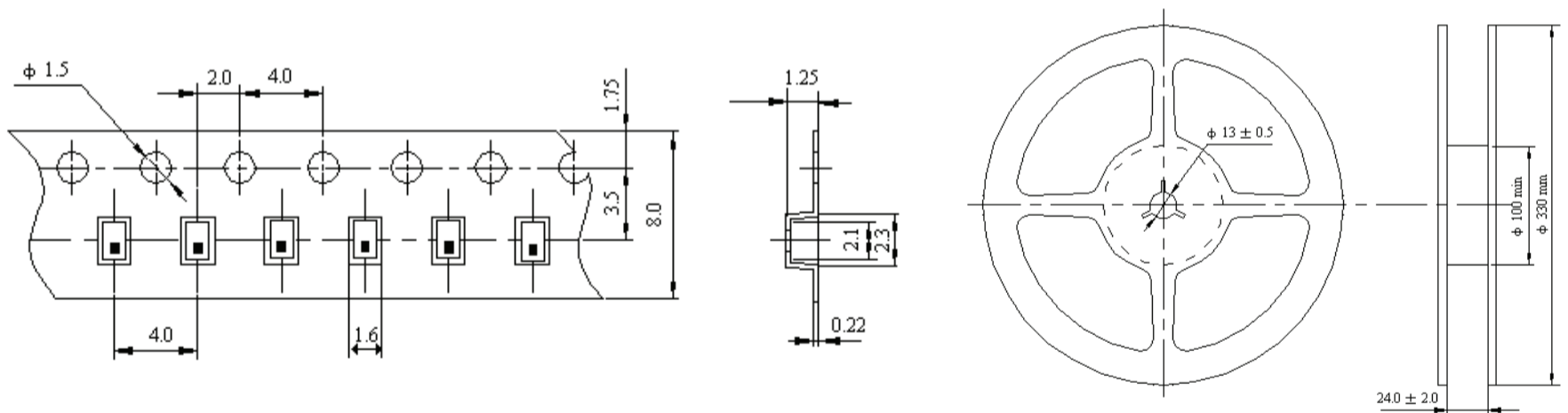
MSL = 1

REFLOW SOLDERING STANDARD CONDITION



PACKAGING

Reel (4000 pcs/Reel)



Dimensions: mm

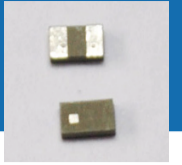
Storage Temperature Range : <30 degree C, Humidity : <60%RH

MSL-1

Oxidizable, 12 months in a vacuum sealed bag.

Once opened, please repack the unused items within 168 hours by re-seal package treatment.

Low profile Compact 2.4 GHz Ceramic Chip Antenna



ACAG0201-2450-T

2.0 x 1.25 x 0.6mm



RoHS/RoHS II Compliant

MSL = 1

CAUTIONS

1. Static voltage

Static voltage between signal & ground may cause deterioration & destruction of the component. Please avoid static voltage.

2. Ultrasonic cleaning

Ultrasonic vibration may cause deterioration & destruction of the component. Please avoid ultrasonic cleaning.

3. Soldering

Only leads of the component may be soldered. Please avoid soldering to any other part of the component, such as on the patterns as this will change the performance of the antenna.