

# DIELECTRIC RESONATOR DR90S0409504JT

## ICD

### SMD DIELECTRIC CERAMIC RESONATOR SPECIFICATION

#### 1. 适用范围 Scope

本规格书涉及 950MHz 的介质谐振器的性能。

The specification shall cover the characteristics of 950MHz dielectric resonator.

#### 2. 规格书号: Spec No. 2.964.104.46

#### 3. 产品型号: Part No. DR90S049504JT

#### 4. 电气性能: Electric Characteristic:

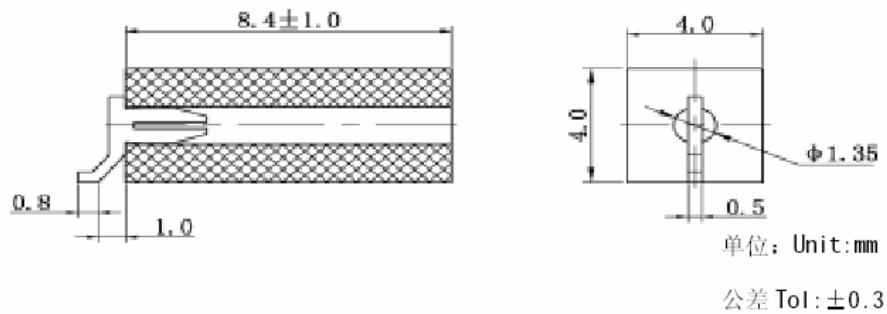
NO.	项 目 ITEM	规 格 SPECIFICATION
1	频率精度 Frequency Accuracy	950 ± 10MHz
2	波长 Wave Length	$\lambda / 4$
3	Qu	$\geq 270$
4	温度稳定性 Temperature Stability	0 ± 10PM/°C

#### 5. 环境性能 Environmental Characteristics

NO.	测试项目 Item	测 试 条 件 Measurement condition	性 能 要 求 Requirement
5-1	湿度试验 Humidity	将滤波器放在温度为 $40 \pm 5^\circ\text{C}$ 和相对湿度为 90-95%RH 的湿度箱中 $96 \pm 2$ 小时。后置于自然环境中 2 小时再进行测试。 Filter is placed in chamber of $40 \pm 5^\circ\text{C}$ , humidity 90-95% RH for $96 \pm 2$ hours. Then it be placed in natural condition for 2 hours, filter shall be measured.	测得值满足第 4 条所规定的电性能标准。 It meet the 4. electrical characteristics.
5-2	高温试验 High Temperature	将滤波器放在温度为 $+90^\circ\text{C}$ 的试验箱中 $96 \pm 2$ 小时, 后置于自然环境中 2 小时再进行测试。 Filter is placed in chamber of $+90^\circ\text{C}$ for $96 \pm 2$ hours. Then it be placed in natural condition for 2 hours, filter shall be measured.	测得值满足第 4 条所规定的电性能标准。 It meet the 4. electrical characteristics.
5-3	低温试验 Low Temperature	将滤波器放在 $-40^\circ\text{C}$ 的温度试验箱中 $96 \pm 2$ 小时。后置于自然环境中 2 小时再进行测试。 Filter is placed in chamber of $-40^\circ\text{C}$ for $96 \pm 2$ hours. Then it be placed in natural condition for 2 hours, filter shall be measured.	测得值满足第 4 条所规定的电性能标准。 It meet the 4. electrical characteristics.
5-4	振 动 Vibration	振动幅度为 1.5mm, 其振动频率为 10-55Hz, 加速度 10g。振动沿三方互相垂直的方向进行, 各 30 分钟。 Filter shall be measured after being applied vibration of amplitude of 1.5mm with 10-55Hz band and 10g acceleration of vibration frequency to each of 3 perpendicular directions for 30minutes.	没有可见损伤, 且测得值满足第 4 条所规定的电性能标准。 No damage and it shall meet the 4. electrical characteristics.

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## 6. 外形尺寸: Outline Dimension



## 7. 焊接条件 Soldering Condition

NO.	测试项目 Testing Item	测试条件 Testing Condition
7-1	1) 手工烙铁焊接 Manual solder(by soldering iron)	预热温度 Pre-heating temperature 120℃ 预热时间 Pre-heating time 60~600 seconds 焊接温度 Soldering temperature 240±5℃ 焊接时间: 每个端子最长 5 分钟 Soldering time:5min. Per terminal max
7-2	2) 回流焊接: Reflow Solder:	焊接温度曲线见下图 solder temp. graph as follows: 

## 8. 注意事项: Notice

8-1. 本产品不得在含有腐蚀性气体或易燃易爆气体的环境中使用。

This product may not be used in the following environments which have ambient air containing corrosive gas and volatile or combustible gas.

8-2. 本产品电极有铜锡电极和银电极，银电极产品在焊接时建议使用 2.5%的含银焊料，这样可防止锡吃银，从而保证良好的焊接和性能。

There are copper&tin electrode and silver electrode in the product electrode. It is used solder with 25% (reference value)silver while silver electrode soldering.