**金相切片报告**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 送样人 | | IQC | | | | | | | 品号 | | | | | T53-Y318-25 | | | | |
| 产品编号 | | 20170817003-1 | | | | | | | 日期 | | | | | 2017.08.17 | | | | |
| 环境 | | 失效分析实验室 | | | | | | | 抽样数 | | | | | 1 PCS | | | | |
| 温度 | | 27.1℃ | | | | | | | 湿度 | | | | | 50.2％RH | | | | |
| 孔壁镀铜层测试 | | | | | | | | | | | | | | | | | | |
| 示 意 图 | | | | 实 测 图 | | | | | | | | | | | | | | |
|  | | | | NA | | | | | | | | | | | | | | |
| 铜厚 单位：um | | | | | | | | | | | | | | | | | | |
| 测试点 | | 孔洞要求 | 实际 | | | | | | | 表铜要求 | | | | | | 实际 | | |
| 测试1 | | | 测试2 | | | | 测试1 | | 测试2 |
| **A** | | ≥20 | NA | | | NA | | | | **a** | | | ≥35 | | | NA | | NA |
| **B** | | ≥20 | NA | | | NA | | | | **b** | | | ≥35 | | | NA | | NA |
| **C** | | ≥20 | NA | | | NA | | | | **C** | | | ≥35 | | | NA | | NA |
| **D** | | ≥20 | NA | | | NA | | | | **d** | | | ≥35 | | | NA | | NA |
| **E** | | ≥20 | NA | | | NA | | | | NA | | | NA | | | NA | | NA |
| **F** | | ≥20 | NA | | | NA | | | | NA | | | NA | | | NA | | NA |
| **Min** | | | NA | | | NA | | | | **Min** | | | | | | NA | | NA |
| **Max** | | | NA | | | NA | | | | **Max** | | | | | | NA | | NA |
| **Avg** | | | NA | | | NA | | | | **Avg** | | | | | | NA | | NA |
| 埋孔/塞孔要求 | | NA | | | | | | | | | | | | | | NA | | |
| 积层与粗糙度测试 单位：um | | | | | | | | | | | | | | | | | | |
| 积层被浊厚度 | | | | | | | 孔壁粗糙度 | | | | | | | | | | | |
| 要求 | | ≤10 | | | | | 要求 | | | | | | | | ＜25 | | | |
| 实际 | | 未发现 | | | | | 实际 | | | | | | | | NA | | | |
| 阻焊厚度测试 单位：um | | | | | | | | | | | | | | | | | | |
| 示 意 图 | | | | | | | | 实 测 图 | | | | | | | | | | |
| 按委托要求只测指定阻焊处 | | | | | | | | NA | | | | | | | | | | |
| 测试点 | | 要求 | | | | | | | | | 实测 | | | | | | | |
| **A** | | 按要求记录实测值 | | | | | | | | | 36.13 | | | | | | | |
| **B** | | 按要求记录实测值 | | | | | | | | | 44.99 | | | | | | | |
| **C** | | 按要求记录实测值 | | | | | | | | | 48.4 | | | | | | | |
| **D** | | 按要求记录实测值 | | | | | | | | | 49.76 | | | | | | | |
| 缺陷观察 | | | | | | | | | | | | | | | | | | |
| 1胶渣 | | 未发现 | | | 4镀层断裂 | | | | 未发现 | | | | 7板材空洞 | | | | 未发现 | |
| 2分层 | | 未发现 | | | 5铜层断裂 | | | | 未发现 | | | | 8层间分离 | | | | 未发现 | |
| 3气泡 | | 未发现 | | | 6镀层空洞 | | | | 未发现 | | | | 9树脂下陷 | | | | 未发现 | |
| 结论：按委托要求只测指定阻焊处，并给出实测值，不做判定。 | | | | | | | | | | | | | | | | | | |
| 实 验 员: |  | | | | | | | 审 核: | | | |  | | | | | | |

此资料属广东大普通信技术有限公司所有，未经许可，不得扩散。