# 相 控 阵 超 声 检 测 报 告

报告编号：

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 工程名称 | |  | | | | | 检测日期 | |  | | |
| 原始记录编号 | |  | | | | | 委托单位 | |  | | |
| **工 件 参 数** | | | | | | | | | | | |
| 工件名称 | |  | | 工件编号 |  | | | 坡口型式 | | |  |
| 焊接方法 | |  | | 检测部位 |  | | | 热处理状态 | | |  |
| 材 质 | |  | | 规 格 |  | | | 检测时机 | | |  |
| **技 术 要 求** | | | | | | | | | | | |
| 检测标准 | |  | | | 技术等级 | | |  | | | |
| 合格级别 | |  | | | 检测比例 | | |  | | | |
| 表面状态 | |  | | | 现场温度 | | |  | | | |
| 扫查灵敏度 | |  | | | 灵敏度补偿 | | |  | | | |
| **检 测 器 材** | | | | | | | | | | | |
| 设备型号 | |  | 校准试块 | |  | | | 探头编号 | | |  |
| 设备编号 | |  | 对比试块 | |  | | | 楔块型号 | | |  |
| 耦合剂 | |  | 模拟试块 | |  | | | 扫查装置 | | |  |
| **检 测 参 数** | | | | | | | | | | | |
| 材料声速 | 4660m/s | | | 工件厚度 | | 40mm | | 工件长度 | | 100mm | |
| 探头频率 | 18MHz | | | 晶片数量 | | 128 | | 晶片间距 | | 0.2mm | |
| 晶片长度 | 4.5mm | | | 楔块声速 | | 1483m/s | | 楔块角度 | | 36.10° | |
| 1晶片X值 | 47.9mm | | | 1晶片Z值 | | 9.2mm | | 正反装 | | 正装 | |
| 激发电压 | 50V | | | 脉冲宽度 | | 27ns | | 刷新频率 | | 27Hz | |
| PRF | 13560KHz | | | 收发模式 | | 脉冲回波 | | 滤波 | | -1~-1MHz | |
| 激发孔径 | 16 | | | 起始角 | | 0° | | 终止角 | | 0° | |
| 聚焦模式 | 聚焦 | | | 聚焦方式 | | 深度聚焦 | | 焦距 | | 2.8mm | |
| 闸门A模式 | 深度 | | | 闸门A测量 | | 峰值 | | 闸门A起点 | | 2.40mm | |
| 闸门A宽度 | 0.60mm | | | 闸门A阈值 | | 14% | | C扫查1数据源 | | A% | |
| C扫查2数据源 | SA | | | 扫查分辨力 | | 0.1mm | | 时间分辨力 | | 1Hz | |
| 范围起点 | -2.00mm | | | 范围终点 | | 6.01mm | | 基准增益 | | 0dB | |
| 增益 | 20dB | | | 扫查长度 | | 60mm | | TCG点数 | | 0 | |

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| 工件长度 |  | 工件宽度 |  | 工件厚度 |  |
|  | | | | | |

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| 序号 | 位置  mm | 长度  mm | 高度  mm | 水平  mm | 幅值  % | 当量值  dB | 幅值  区域 | 缺陷  性质 | 缺陷  评定 |
| 1 | [0.0,0.0] | 3.6[19.6,23.2] | 2.4[-40.6,-38.1] | 0 | 80.00 | 0.00 |  |  |  |
|  | | | | | | | | | |

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| **结 论** |  | | |
| **备 注** |  | | |
| **检测人/资格：**  **日期：** | | **审核人/资格：**  **日期：** | **检测机构盖章** |