|  |  |  |  |
| --- | --- | --- | --- |
| **TEST IDENTIFICATION** | | | |
| **TEST NAME** | | | |
| U1 Pin 2 Short-Circuit | | | |
| **TEST NO\*** | T2 | **UUT PN** | 04A-005 |
| **LAST TEST NO** | T1 | **TEST TYPE** | STATIC |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COMPONENTS UNDER TEST** | | | | |
| **REF DES** | **TYPE** | **PARAMETER** | **FAILURE MODE** | **TEST LIMIT** |
| U1 | IC (ANALOG) | CONTINUITY | Short Circuit | LOWER |
| N/A | N/A |
|  | N/A | N/A | N/A | N/A |
| N/A | N/A |
|  | N/A | N/A | N/A | N/A |
| N/A | N/A |
|  | N/A | N/A | N/A | N/A |
| N/A | N/A |
|  | N/A | N/A | N/A | N/A |
| N/A | N/A |
|  | N/A | N/A | N/A | N/A |
| N/A | N/A |
|  | N/A | N/A | N/A | N/A |
| N/A | N/A |
|  | N/A | N/A | N/A | N/A |
| N/A | N/A |
|  | N/A | N/A | N/A | N/A |
| N/A | N/A |
|  | N/A | N/A | N/A | N/A |
| N/A | N/A |
|  | N/A | N/A | N/A | N/A |
| N/A | N/A |
|  | N/A | N/A | N/A | N/A |
| N/A | N/A |
|  | N/A | N/A | N/A | N/A |
| N/A | N/A |
|  | N/A | N/A | N/A | N/A |
| N/A | N/A |

|  |
| --- |
| **TEST PROCEDURE** |
| **PURPOSE** |
| Detect if U1 has a short-circuit to ground on pin 1. |
| **SCOPE** |
| Handheld multimeter measurement. |
|  |
| N/A |

|  |  |  |  |
| --- | --- | --- | --- |
| **POWER** | | | |
| None | | | |
| **STIMULI** | | | |
| None | | | |
| **MEASUREMENT** | | | |
| Measure resistance between input pin and ground. | | | |
| **SIGNAL PIN** | TP1 |  | |
|  | | |  |
| **RETURN PIN** | TP10 |  | |
|  | | |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ACCEPTANCE CRITERIA** | | | | |
| **PARAMETER** | **LOWER LIMIT** | **TARGET VALUE** | **UPPER LIMIT** | **UNITS** |
| RESISTANCE | 10 KΩ | N/A | N/A | Ω |

|  |  |  |  |
| --- | --- | --- | --- |
| **TEST RESULTS** | | | |
| **RESULT** | **NEXT STEP** | **ADJUST** | **REPLACE** |
| IN TOLERANCE | T3 | N/A | N/A |
| OOT HIGH | N/A | N/A | N/A |
| OOT LOW | END FAIL | N/A | U1 |
| OOT HIGH AND UNABLE TO ADJUST | N/A | N/A | N/A |
| OOT LOW AND UNABLE TO ADJUST | N/A | N/A | N/A |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **This Space Intentionally Blank** | | | | |
| **Form Controls** | | | | |
|  | |  |  |  |
| Log Entry Key | 20230205185001 | | | |
| Computer ID |  | | | |
| User ID |  | | | |
| Date Time |  | | | |
| PDF |  | | | |