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Scanning Electron Microscope (SEM) Summary

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|------------------|------|---------|---|----------|----------|
| Cage Code | SIZE | Version | | | |
| OUC32 | A | # | Description | Date | Approved |
| Document No. | | 1.2 | Add to Docuware | 09/14/22 | JCG |
| 051-07131 | | 1.1 | Added more part numbers | 09/14/22 | MZ |
| Test Summary | | 1.0 | Changed format and to Docuware versioning | 3/5/21 | MG |

1. Purpose and Scope

This method provides a means of judging the quality and acceptability of device interconnect metallization on non-planar oxide integrated circuit wafers or dice. SEM inspection is not required on planar oxide interconnect technology such as chemical mechanical polish (CMP) processes. It addresses the specific metallization defects that are batch process orientated and which can best be identified utilizing this method. Conversely, this method should not be used as a test method for workmanship and other type defects best identified using method 2010.

2. Reference

MIL-STD-883, Method 2018 TEST METHODS AND PROCEDURES FOR MICROELECTRONICS

3. Test Results

| Part Type | Description | Test Condition | Sample Size | Date | Results |
|-----------------|--------------------------------|----------------|-------------|----------|---------|
| MM1K-0626SCH-01 | MMIC Mixer RF 6 - 26.5 GHz | - | 4 | 09/01/22 | Pass |
| MM1A-1855HPSM | High Linearity GaAs MMIC MIXER | - | 1 | 06/07/22 | Pass |
| MM1K-0320LCH-01 | MMIC Mixer RF 3 - 20 GHz | - | 4 | 03/10/20 | Pass |
| MM2K-0530HCH-01 | MMIC Mixer RF 5-30 GHz | - | 4 | 11/16/20 | Pass |
| AKA-1500D | MMIC Amplifier, Gain Block | - | 1 | 11/16/20 | Pass |
| MM1K-1044HCH-01 | MMIC Mixer RF 10-44 GHz | - | 4 | 11/13/20 | Pass |
| MM1K-0626HCH-01 | MMIC Mixer RF 6-26 GHz | - | 4 | 11/13/20 | Pass |
| MM2K-0530LCH-01 | MMIC Mixer RF 5-30 GHz | - | 4 | 03/10/20 | Pass |
| MM1H-1857LCH-2 | MMIC Mixer RF 18 - 57 GHz | - | 4 | 04/15/19 | Pass |
| MM1-2567LCH-2 | MMIC Mixer RF 25 - 67 GHz | - | 4 | 04/15/19 | Pass |
| MM2K-0530LCH-2 | MMIC Mixer RF 5-30 GHz | - | 4 | 04/20/18 | Pass |
| MM1K-1140HCH-2 | MMIC Mixer RF 11 - 40 GHz | - | 4 | 11/22/17 | Pass |
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