1. The Applicable Product

BU7442FVM-TR
2. Evaluation Package

| No | Item | Information |
| :---: | :--- | :--- |
| 1 | Subject | LSI product of Leadfree plating |
| 2 | Type of Terminal Plating | Sn |
| 3 | Plating Grain Size | $2 \mu \mathrm{~m}$ to $10 \mu \mathrm{~m}$ |
| 4 | Bath type | Akyl sulfonic acid, Electro plating |
| 5 | Matt or Bright | Matt |
| 6 | Under Plating | None |
| 7 | Type of Frame | Cu Alloy frame |

## 3. Compliance standerds

Tin Whisker Acceptance Test Requirements (NEMI Tin Whisker Users Group, July 28, 2004)
4. Test Flow

| No | Test Flow | Test Condition |
| :---: | :--- | :--- |
| 1 | Preparation | M.P. condition |
| 2 | Pre Inspection | SEM $\times 250$, Top/Side/Forming Section |
| 3 | Preconditioning-1 | Storage at ambient temp. for 4 weeks |
| 4 | Preconditioning-2 | $215^{\circ} \mathrm{C}$ Reflow, $255^{\circ} \mathrm{C}$ Reflow |
|  |  | $1.30^{\circ} \mathrm{C}, 70 \% \mathrm{RH}, 4,000 \mathrm{hr}$ <br> 5 <br> 5 |
|  | Applying Stress $60^{\circ} \mathrm{C}, 87 \% \mathrm{RH}, 4,000 \mathrm{hr}$ |  |
|  |  | $3 .-55 /+85^{\circ} \mathrm{C}, 2,000 \mathrm{cyc}$ |
| $4.30^{\circ} \mathrm{C}, 70 \%$, Bias, $4,000 \mathrm{hr}$ |  |  |
| 6 | Screening Inspection | $\times 50$, Top/Side/Forming Section |
| 7 | Detailed Inspection | $\mathrm{SEM} \times 250$, Top/Side/Forming Section |

5. Test Result

Criteria : Not allow, the whisker is larger than $40 \mu \mathrm{~m}$ between lead to lead.

| No | Preconditioning-1 | Preconditioning-2 | Stress Condition |  |
| :---: | :---: | :---: | :--- | :---: | \(\left.\begin{array}{c}Result:Pn/n <br>

(\mathrm{pcs})\end{array}\right]\).

## Therefore, wisker is no problem.

02.Nov. 2015


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