

1. The Applicable Product

BD4830FVE-TR

2. Evaluation Package

No	ltem	Information
1	Subject	LSI product of Leadfree plating
2	Type of Terminal Plating	Sn
3	Plating Grain Size	2µm to 10µm
4	Bath type	Alkyl sulfonic acid, Electro plating
5	Matt or Bright	Matt
6	Under Plating	None
7	Type of Frame	Cu Aloy 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	MP. condition	
2	Pre Inspection	SEMx250, Top/Side/Forming Section	
3	Preconditioning-1	Storage at ambient temp. for 4 weeks	
4	Preconditioning-2	215°C Reflow, 255°C Reflow	
5		1. 30°C, 70% RH, 4,000hr	
		2. 60°C, 87% RH, 4,000hr	
		355/+85°C, 2,000cyc	
		4. 30°C,70%, Bias,4,000hr	
6	Screening Inspection	x 50, Top/Side/Forming Section	
7	Detailed Inspection	SEMx250, Top/Side/Forming Section	

5. Test Result

Criteria : Not allow, the whisker is larger than 40µm between lead to lead.

No	Preconditioning-1	Preconditioning-2	Stress Condition	Result:Pn/n
				(pcs)
1	Storage at ambient temprature. 4 weeks	None	30°C, 70% RH 4,000hr	0 / 96
2			60°C, 87% RH 4,000hr	0 / 96
3		215°C Reflow Simulation	30°C, 70% RH 4,000hr	0 / 96
4			60°C, 87% RH 4,000hr	0 / 96
5		255°C Reflow Simulation	30°C, 70% RH 4,000hr	0 / 96
6			60°C, 87% RH 4,000hr	0 / 96
7		215°C Reflow Simulation	–55/+85°C 2,000cyc	0 / 96
8		255°C Reflow Simulation	–55/+85°C 2,000cyc	0 / 96
9		215°C Reflow Assembly	30°C, 70%, Bias 4,000hr	0 / 96

Therefore, wisker is no problem.

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