

Product Change Notice (PCN)

Subject: Alternate Die Attach Material for Assembly of Intersil Hermetic Packaged Products

Publication Date: 9/30/2016

Effective Date: 12/30/2016

Revision Description:

Initial Release

Description of Change:

This notice is to inform you that Intersil has qualified the Henkel QMI 2569 silver glass adhesive as an alternate die attach material for assembly of hermetic packaged products at its Palm Bay, FL facility. The QMI 2569 die attach material will be used as an alternate to the JM7000 Silver Polymer material in use today for the listed products. This action will expand current capabilities and capacities to optimize Intersil's ability to meet customer's delivery requirements. The product and material qualification activity is complete.

Reason for Change:

The Henkel QMI 2569 die attach material provides improved thermal characteristics as well as improved wire bonding process control (less volatile outgassing during the cure process). Intersil has qualified and currently uses QMI 2569 on > 75% of the Class V products produced in the Palm Bay assembly location.

Impact on fit, form, function, quality & reliability:

The Henkel QMI 2569 silver glass adhesive will have no impact to the form, fit, function, or interchangeability of the product. Qualification plans for a change in material (die attach) are designed using MIL-PRF-38535, JEDEC, and other applicable industry standards to confirm there is no impact to form, fit, function, or interchangeability of the product. The reliability qualification summary and affected products list are included for reference. The remainder of the manufacturing operations (wafer fabrication, package level electrical testing, Q/TCI testing, shipment, etc.) will continue to be processed to previously established conditions and systems.

Product Identification:

Product affected by this change is identifiable via Intersil's internal traceability system. Customers can expect to receive product manufactured with either qualified die attach material (QMI 2569M or JM7000).

Qualification status: Complete, see attached

Sample availability: 60 days after receipt of request

Device material declaration: Available upon request

Questions or requests pertaining to this change notice, including additional data or samples, must be sent to Intersil within 30 days of the publication date.

For additional information regarding this notice, please contact your regional change coordinator (below)			
Americas: PCN-US@INTERSIL.COM	Europe: PCN-EU@INTERSIL.COM	Japan: PCN-JP@INTERSIL.COM	Asia Pac: PCN-APAC@INTERSIL.COM

Appendix A - Affected Products List

5962-85016023A	5962-87677012A	84065023A	HI1-674ATD/883
5962-8512704XA	5962-87677012AR4573	8406602XA	HI4-0546/883
5962-85131013A	5962-88502012A	85015013A	HI4-0547/883
5962-85131013AS2035	5962-89635012A	CDP1802ACD3	HI4-0548/883
5962-85131023A	5962-89636012A	HA4-5002/883	HI4-5051/883
5962-85131073A	77052012A	HI1-574AJD-5	HM1-6617/883
5962-85131092A	7705201EC	HI1-574AKD-5	HM1-6642B/883
5962-86716012A	77052022A	HI1-574ASD-2	HS1-3182-8
5962-86860012A	78029013A	HI1-574ATD-2	HS1-3182-9+
5962-8687901EA	84065013A	HI1-674AKD-5	HS4-3182-8

Appendix B - Qualification Results

INTERSil Corporation

Group D

Attributes Data

In Accordance with MIL-PRP-38535

Lot ID:	50582T02-G3L6JBA	Assembly Site:	HSS
Lot ID'S Combined:		Package Code:	KBJ
Date Code(s):	X1507ABBD	Die Attach:	AG GLASS
INTERSIL Part #:	HS9-26CLV31RH-B	Lead Finish:	C
Marketing Part #:	5962F9666302QXC	Fab Quarter:	15B

Subgroup	Description	Method	SSSS	SS/C	Rejects	Test Date	Comments
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D1	PHYSICAL DIMENSIONS	2016	N/A	015/0	0	13 APRIL 16	
D2	LEAD FATIGUE	2004	N/A	045/0	0	19 APRIL 16	
D3	+25C INITIAL ELECTRICALS	N/A	N/A	015/0	0	10 MARCH 16	
D3	THERMAL SHOCK	1011	N/A	015/0	0	14 MARCH 16	
D3	TEMP CYCLE	1010	N/A	015/0	0	18 MARCH 16	
D3	MOISTURE RESISTANCE	1004	N/A	015/0	0	14 APRIL 16	
D3	VISUAL EXAM	1004	N/A	015/0	0	15 APRIL 16	
D3	+25C POST ELECTRICALS	N/A	N/A	015/0	0	15 APRIL 16	
D3	FINE LEAK	1014	N/A	015/0	0	20 APRIL 16	
D3	GROSS LEAK	1014	N/A	015/0	0	20 APRIL 16	
D4	+25C INITIAL ELECTRICALS	N/A	N/A	015/0	0	10 MARCH 16	
D4	MECHANICAL SHOCK	2002	N/A	015/0	0	04 APRIL 16	
D4	VIBRATION VAR. FREQ.	2007	N/A	015/0	0	04 APRIL 16	
D4	CONSTANT ACCELERATION	2001	N/A	015/0	0	06 APRIL 16	
D4	FINE LEAK	1014	N/A	015/0	0	07 APRIL 16	
D4	GROSS LEAK	1014	N/A	015/0	0	07 APRIL 16	
D4	VISUAL EXAM	1011	N/A	015/0	0	08 APRIL 16	
D4	+25C POST ELECTRICALS	N/A	N/A	015/0	0	12 APRIL 16	
D5	SALT ATMOSPHERE	1009	N/A	015/0	0	14 APRIL 16	
D5	VISUAL EXAM	1009	N/A	015/0	0	14 APRIL 16	
D5	FINE LEAK	1014	N/A	015/0	0	15 APRIL 16	
D5	GROSS LEAK	1014	N/A	015/0	0	16 APRIL 16	
D6	INTERNAL WATER VAPOR	1018	N/A	003/0	0	25 APRIL 16	
D7	LEAD FINISH	2025	N/A	015/0	0	18 APRIL 16	