

PRODUCT CHANGE NOTICE

**Manufacturing Site and Package Outline
Drawing Change for the Listed Intersil
LQFP Packaged Products**

**Refer to:
PCN10003**

Date: January 12, 2010

January 12, 2010

To: Our Valued Intersil Customers

Subject: Manufacturing Site and Package Outline Drawing Change for the Listed Intersil LQFP Packaged Products – Amkor Philippines (ATP)

This notice is to inform you that Intersil has changed the package outline drawing (POD) and will begin using the Amkor Philippines (ATP) facility for assembly of the listed LQFP (Thin Plastic Quad Flat Pack) packaged products. The updates to the POD incorporate Intersil's new POD format and change the terminology used for symbols D, D1, E, and E1 to BSC (Basic Spacing between Centers) to align it with JEDEC outline MS-026BBC. The change in assembly site is necessary as the current subcontractor is discontinuing assembly operations of the LQFP packages used for the listed products.

The Amkor Philippines (ATP) facility is ISO 9001:2000 and ISO/TS 16949:2002 certified and has been a primary supplier of assembly packaging operations to Intersil for more than ten years. The ATP facility is currently Intersil qualified for assembly of various package styles, including QFP packaged products. There will be no change moisture sensitivity level (MSL). The ATP qualified material set combinations are as follows:

Material	ATP
Mold Compound	Sumitomo EME-G700L series
Die Attach	Ablebond 3230

The assembly qualification activity is considered QBE (Qualified by Extension) as the existing processes, materials, and equipment used to assemble the current LQFP products at ATP will be used for these products going forward. A summary of the historical qualification tests, old POD, and new POD are attached for reference. The remainder of the manufacturing operations (wafer fabrication, package level electrical testing, shipment, etc.) will continue to be processed to previously established conditions and systems.

Product affected by this change is identifiable via Intersil's internal traceability system and by the assembly site code (country of assembly) marked on the devices. The site code for product assembled at the Amkor Philippines (ATP) facility is "L".

Intersil will take all necessary actions to conform to customer requirements and to ensure the continued high quality and reliability of Intersil products being supplied. Customers may expect to receive product assembled at either the current or the newly qualified sites beginning *ninety* days from the date of this notification or earlier with approval

If you have concerns with this change notice, Intersil must hear from you immediately. Please contact the nearest Intersil Sales Office or call the Intersil Corporate line at 1-888-468-3774, in the United States, or 1-321-724-7143 outside of the United States.

Jon Brewster

Intersil Corporation

PCN10003

CC: J. Touvell D. Foster D. Decrosta P. Selby M. Matta

PCN10003 – Products Affected

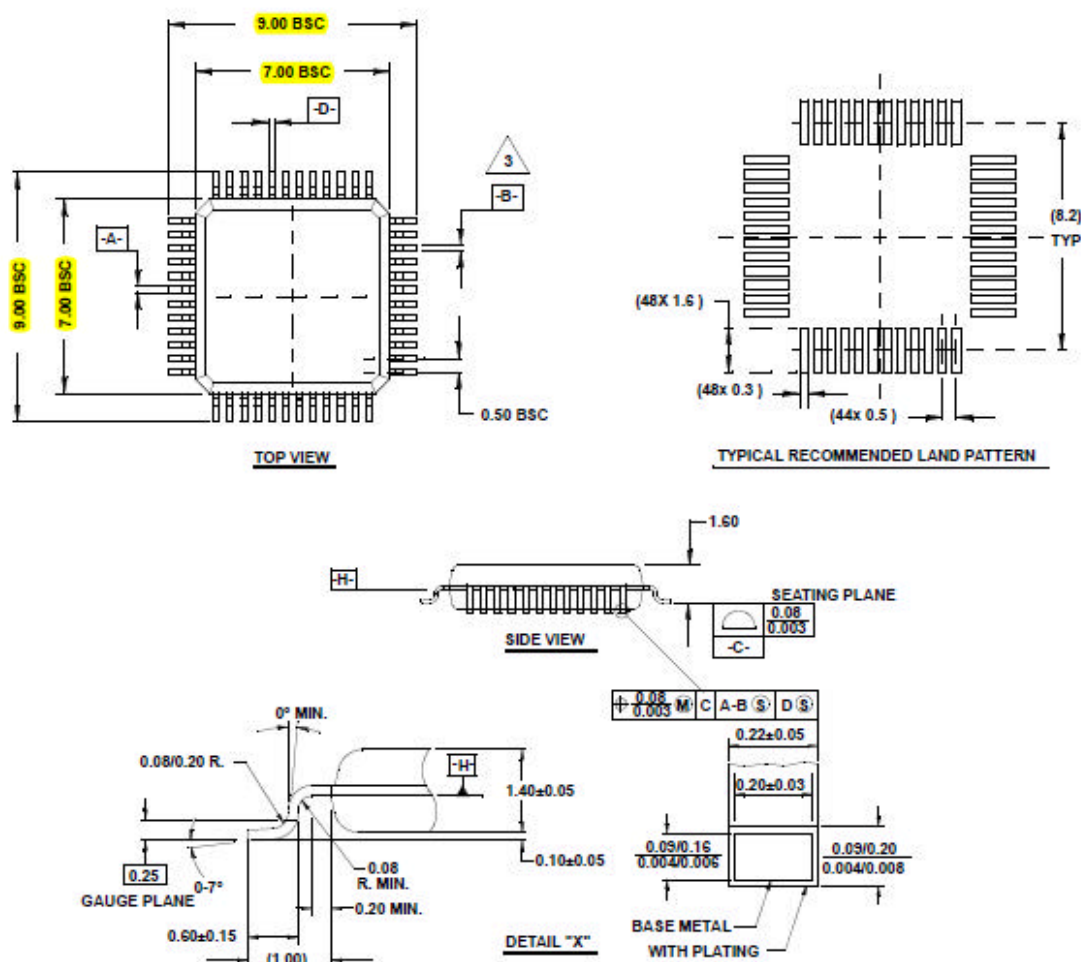
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ISL5629/2IN	ISL5929IN
ISL5629/2INZ	ISL5929INZ
ISL5629IN	

New Package Outline Drawing – PCN10003

Q48.7x7A

48 LEAD THIN PLASTIC QUAD FLATPACK PACKAGE

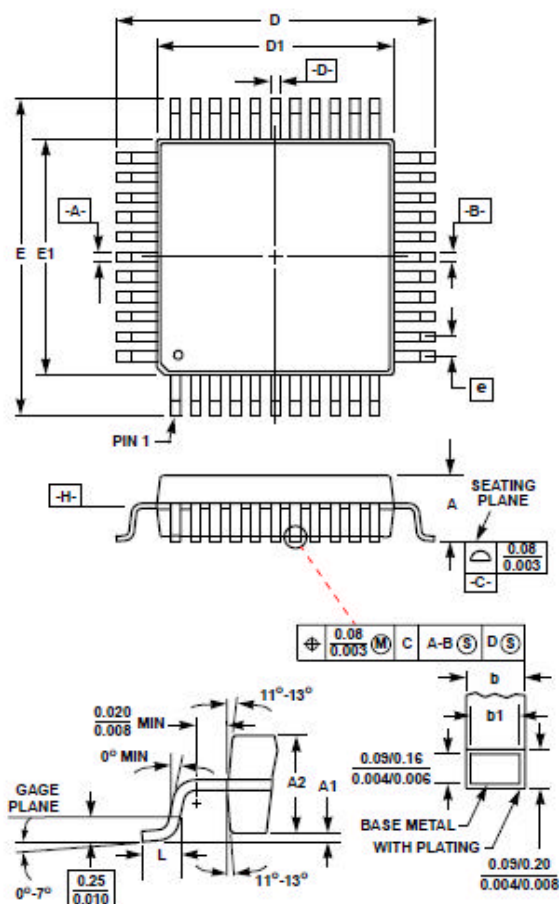
Rev 3, 1/10



NOTES:

1. Controlling dimension: MILLIMETER. Converted inch dimensions are not necessarily exact.
2. All dimensions and tolerances per ANSI Y14.5M-1982
3. Lead to lead width and length to be determined at seating plane.
4. Body width and length to be determined at datum plane.
5. Dimensions D1 and E1 do not include mold protrusion. Allowable protrusion is 0.025mm (0.10 inch) per side.
6. Dimension b does not include dambar protrusion. Allowable dambar protrusion shall not cause the lead width to exceed the maximum b dimension by more than 0.08mm (0.003 inch)
7. Package outline compliant to JEDEC MS-026BBC.

Old Package Outline Drawing – PCN10003



Q48.7x7A (JEDEC MS-026BBC ISSUE B)
48 LEAD THIN PLASTIC QUAD FLATPACK PACKAGE

SYMBOL	INCHES		MILLIMETERS		NOTES
	MIN	MAX	MIN	MAX	
A	-	0.062	-	1.60	-
A1	0.002	0.005	0.05	0.15	-
A2	0.054	0.057	1.35	1.45	-
b	0.007	0.010	0.17	0.27	6
b1	0.007	0.009	0.17	0.23	-
D	0.350	0.358	8.90	9.10	3
D1	0.272	0.280	6.90	7.10	4, 5
E	0.350	0.358	8.90	9.10	3
E1	0.272	0.280	6.90	7.10	4, 5
L	0.018	0.029	0.45	0.75	-
N	48		48		7
e	0.020 BSC		0.50 BSC		-

Rev. 2 1/99

NOTES:

1. Controlling dimension: MILLIMETER. Converted inch dimensions are not necessarily exact.
2. All dimensions and tolerances per ANSI Y14.5M-1982.
3. Dimensions D and E to be determined at seating plane -C-.
4. Dimensions D1 and E1 to be determined at datum plane -H-.
5. Dimensions D1 and E1 do not include mold protrusion. Allowable protrusion is 0.25mm (0.010 inch) per side.
6. Dimension b does not include dambar protrusion. Allowable dambar protrusion shall not cause the lead width to exceed the maximum b dimension by more than 0.08mm (0.003 inch).
7. "N" is the number of terminal positions.

PCN10003 – Reliability QBE Summary

Test Name: AUTOCLAVE								
Lot ID	Mask	Product	Package	Precon.	Conditions	Sample Size	Duration	Rejects
SRN070355-0	53570A01	ISL53570IQR1234	64 LEAD LQFP	L3 PBFREE	121C, 100%RH	40	240	0
SRN070355-1	53570A01	ISL53570IQR1234	64 LEAD LQFP	L3 PBFREE	121C, 100%RH	40	240	0

Test Name: STORAGE								
Lot ID	Mask	Product	Package	Precon.	Conditions	Sample Size	Duration	Rejects
SRN070355-0	53570A01	ISL53570IQR1234	64 LEAD LQFP	BAKE AND REFLOW	150C	37	1000	0
SRN070355-1	53570A01	ISL53570IQR1234	64 LEAD LQFP	BAKE AND REFLOW	150C	37	1000	0

Test Name: TEMP CYCLE								
Lot ID	Mask	Product	Package	Precon.	Conditions	Sample Size	Duration	Rejects
SRN070355-0	53570A01	ISL53570IQR1234	64 LEAD LQFP	L3 PBFREE	-65C TO 150C	108	500	0
SRN080200-0	53570A01	ISL53570IQR5267	64 LEAD LQFP	L3 PBFREE	-65C TO 150C	230	1000	0

Test Name: THB								
Lot ID	Mask	Product	Package	Precon.	Conditions	Sample Size	Duration	Rejects
SRN070355-0	53570A01	ISL53570IQR1234	64 LEAD LQFP	L3 PBFREE	85C, 85%RH	80	1000	0
SRN080200-0	53570A01	ISL53570IQR5267	64 LEAD LQFP	L3 PBFREE	85C, 85%RH	80	1000	0