



---

# POWER8 Processor SCM Connector Assembly

## Physical Outline Drawing

---

**Advance**

April 23, 2014



© Copyright International Business Machines Corporation 2014

Printed in the United States of America April 2014

IBM, the IBM logo, and [ibm.com](http://ibm.com) are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at [www.ibm.com/legal/copytrade.shtml](http://www.ibm.com/legal/copytrade.shtml).

Other company, product, and service names may be trademarks or service marks of others.

All information contained in this document is subject to change without notice. The products described in this document are NOT intended for use in applications such as implantation, life support, or other hazardous uses where malfunction could result in death, bodily injury, or catastrophic property damage. The information contained in this document does not affect or change IBM product specifications or warranties. Nothing in this document shall operate as an express or implied license or indemnity under the intellectual property rights of IBM or third parties. All information contained in this document was obtained in specific environments, and is presented as an illustration. The results obtained in other operating environments may vary.

While the information contained herein is believed to be accurate, such information is preliminary, and should not be relied upon for accuracy or completeness, and no representations or warranties of accuracy or completeness are made.

**Note:** This document contains information on products in the design, sampling and/or initial production phases of development. This information is subject to change without notice. Verify with your IBM field applications engineer that you have the latest version of this document before finalizing a design.

You may use this documentation solely for developing technology products compatible with Power Architecture®. You may not modify this documentation. You may distribute the documentation to suppliers and other contractors hired by you to solely produce your technology products compatible with Power Architecture technology and to your customers (either directly or indirectly through your resellers) in conjunction with their use and instruction of your technology products compatible with Power Architecture technology. No other license, express or implied, by estoppel or otherwise to any intellectual property rights is granted by this document.

THE INFORMATION CONTAINED IN THIS DOCUMENT IS PROVIDED ON AN "AS IS" BASIS. IBM makes no representations or warranties, either express or implied, including but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement, or that any practice or implementation of the IBM documentation will not infringe any third party patents, copyrights, trade secrets, or other rights. In no event will IBM be liable for damages arising directly or indirectly from any use of the information contained in this document.

IBM Systems and Technology Group  
2070 Route 52, Bldg. 330  
Hopewell Junction, NY 12533-6351

The IBM home page can be found at [ibm.com](http://ibm.com)®.

Version 1.0  
April 23, 2014

1

2

3

4

5

6

7

8

9

10

REL FOR ASM		QTY	TECHNICAL APPROVAL			SYM	DATE	EC NO.	SYM	DATE	EC NO.	PART NO. <b>74Y5640</b>	
			ELECTRICAL			REL	20100817	N24006					
			MATERIAL			PRE	20110601	L37149				DEVELOPMENT NO. Q/M	

CRITERIA			
IBM PN		74Y5640	
CONNECTOR CONFIGURATION & PHYSICAL PARAMETERS	I/O CONFIGURATION	SINGLE ARRAY, 2296 I/O	
	MODULE CONTACT SPACING / PITCH	1.0 mm	
	SEATING PLANE HEIGHT	3.0 mm +/- 0.2	
	Z AXIS COMPLIANCE, USEABLE	0.45 mm	
CONNECTOR MATERIALS	MATERIAL - HOUSING	PES, UL 94V-1	
	MATERIAL - CONTACT	BeCu ALLOY, 10μ" SOFT Au OVER 20μ" HARD Au PLATED ON CONTACT AREA 50μ" MIN, Ni PLATED OVER WHOLE CONTACT	
	MATERIAL - SOLDERBALL	Sn/Ag/Cu	
	MATERIAL - COVER	LCP, MUST FACILITATE ATTACH AND MUST WITHSTAND REWORK TEMPERATURE/DURATION	
CONNECTOR PERFORMANCE	NON- OPERATIONAL ENVIRONMENT	-40C TO 105C	
	DIELECTRIC WITHSTANDING VOLTAGE AT SEA LEVEL (UNMATED)	500Vrms MIN	
	INITIAL CONTACT RESISTANCE	15 MILLIOHMS (AVG) @ 40g NOMINAL LOAD	
	PLUG CYCLES	15 USAGES AS A MATING INTERFACE	
	CURRENT CARRYING CAPACITY, MAXIMUM ANY ONE CONTACT	2 A / CONTACT	
	RELIABILITY	0.01 PPM/CONTACT/KPOH BASED ON DATA FROM TECHNOLOGY / APPLICATION	
	POWER ON CYCLES	1250	
	MAXIMUN OPERATING TEMP.	105C	
	COMPLIANCE	UL	
	MODULE PARAMETERS	MODULE SUBSTRATE TYPE	ORGANIC
PCB PARAMETERS	MODULE I/O PAD DIAMETER	0.62mm +/- 0.05 mm	
	SOLDERMASK DIAMETER	0.72mm +/- 0.05 mm	
	SOLDERMASK THICKNESS	0.015mm ± 0.007mm	
	PLATED PAD HEIGHT	0.015mm ± 0.005mm	
	SOLDERMASK TO PAD CONCENTRICITY	0.03mm	
APPLICATION / ASSEMBLY	PCB PAD DIAMETER	0.56mm +/- 0.05 mm	
	PCB SOLDERMASK DIAMETER	0.66 mm ± 0.05 mm	
	PCB PADSTACKS	IBM SPEC 39J0453	
	PCB LGA PAD CONFIGURATION	NO VIA IN PAD	
SPECIFICATIONS	PCB THICKNESS	DESIGN DEPENDENT	
	MECHANICAL LOADING	40 GRAMS +/- 15%/ CONTACT - APPLIED THROUGH THEOPTICAL MODULE ARRAY ASSEMBLY	
	SOCKET ALIGNMENT SCHEME	SELF-CENTERING BGAs	
	PRODUCT LIFE (POWER ON HOURS)	100K	
	UNMATED CONDITION FOR APPLICATION	NO	
	PROTECTIVE COVER	YES	
SPECIFICATIONS	ASIC PAD PLATING SPECIFICATIONS	N/A	
	IBM QUALIFICATION SPECIFICATIONS	31L3533	
	IBM TRACEABILITY SPECIFICATIONS	93H6757	
	IBM ENVIRONMENTAL SPECIFICATIONS	97P3864 (ROHS), 97P4412 (ANTI-SMOKE), 46G3772 (ENVIRONMENTAL)	
	QUALITY SPECIFICATIONS	34L4233	
CONNECTOR COMPONENT QUALIFICATION PROCEDURES & SPECIFICATIONS	93H6757		

NOTES:

1

THE MECHANICAL COMPONENTS IN THIS ASSEMBLY MUST COMPLY WITH,  
A) IBM SPECIFICATION 97P3864 - COMPLIANCE REQUIREMENTS FOR THE EUROPEAN UNION DIRECTIVE ON THE RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT FOR IBM PRODUCTS AND  
B) IBM SPECIFICATION 46G3772- BASELINE ENVIRONMENTAL REQUIREMENTS FOR SUPPLIER DELIVERABLES TO IBM. SUPPLIER MUST COMPLETE AND FORWARD A PRODUCT CONTENT DECLARATION OR IBM APPROVED INDUSTRY STANDARD FORM AS PART OF THE FIRST ARTICLE INSPECTION PROCESS

2

CONNECTOR MUST BE UL RECOGNIZED. UL RECOGNITION MARKING IS REQUIRED ON THE PART OR ON THE SMALLEST BUNDLE OR UNIT CONTAINER IN WHICH THE PART IS PACKAGED

3

IN APPLICATION, CONTACTS MUST NOT SHORT TO ADJACENT PADS.

4

MATERIAL AND FINISH:  
(IBM DEVT ENGINEERING APPROVED EQUIVALENT IS ACCEPTABLE) ALL MATERIAL MUST HAVE A UL RECOGNIZED FLAME CLASS OF V-1 OR BETTER.

5

ALTERNATE CONSTRUCTIONS ARE ACCEPTABLE WITH PRIOR IBM ENGINEERING APPROVAL. ALL OTHER DIMENSIONS AND FUNCTIONAL REQUIREMENTS MUST BE MAINTAINED.

6

THE MANUFACTURER SHALL NOTIFY IBM PROCUREMENT PRIOR TO CHANGES IN MANUFACTURING LOCATION, DESIGN, MATERIAL OR PROCESS AND SHALL OBTAIN WRITTEN ACCEPTANCE FROM IBM BEFORE MAKING AND CHANGES. THIS DOES NOT REQUIRE THE MANUFACTURER TO REVEAL ANY PROPRIETARY INFORMATION.

7

CONNECTOR FRAME MUST INDICATE IBM PN (44V6734), DATE CODE (YYWW), AND 4 DIGIT SERIAL NUMBER (XXXX).

8

QUALIFICATION OF INITIAL SUPPLIER PART NUMBER NOTED BELOW MAY NOT BE COMPLETE. CONSULT APPROVED SUPPLIER LIST, GENERATED FROM THE IBM CORPORATE SUPPLIER DATABASE, OR IBM PROCUREMENT FOR CURRENT APPROVED SOURCES. INITIAL SUPPLIER: FOXCONN, P/N - PE229623-4890-01H, IMAGES ON SHEET 2, 3, AND 4 FROM FOXCONN SUPPLIER DRAWING # 351-0000-1048 REV - GX1

9

DIMENSION IS FOR SOCKET HEIGHT AFTER SMT ON BOARD

10

APPLY BAR CODE LABEL TO LGA ASSEMBLY SHIPPING PACKAGE IN LGA POCKET. BARCODE TO CONVEY THE FOLLOWING INFORMATION:  
"11S74Y5640YF10 YYWW XXXX"  
BARCODE TO CONVEY THE FOLLOWING INFORMATION.  
THIS INFORMATION SHALL ALSO APPEAR IN HUMAN READABLE FORMAT DIRECTLY BENETH THE BARCODE  
BARCODE DIGIT DEFINITION:  
1-3 = 11S  
4-10 = 74Y5640 (IBM P/N OF LGA/COVER ASM)  
11 = Y  
12 = F (FOXCONN) SUPPLIER-SPECIFIC DIGIT  
13 = 1  
14 = EC LEVEL OR BUILD LEVEL (0 FOR 1ST EC LEVEL)  
15-18 = DATECODE- YY = YEAR, WW = WEEK  
19-22 = 4 DIGIT SERIAL NUMBER

11

PLACEMENT CAP REMOVAL SEE SHEET 4 OF 4

12

CONNECTORS TO BE USED IN SECONDARY CIRCUITS ONLY.

13

CONNECTOR IS NOT APPROVED FOR CURRENT INTERRUPTION APPLICATIONS. CONNECTOR CURRENT RATING DETERMINED WHEN SUPPLIER SELECTION FINALIZED. CONSULT IBM DEVELOPMENT ENGINEERING FOR CLARIFICATION.

14

CONSULT MANUFACTURER FOR TECHNICAL BULLETINS ON APPLICATION AND ASSEMBLY REQUIREMENTS.

15

SEE IBM SPECIFICATION 44V4849 FOR HYBRID LGA SOCKET CRITICAL ASSEMBLY SPECIFICATION.

16

ASIC PAD PLATING RECOMMENDATIONS: CONSULT IBM ENGINEERING SPECIFICATION 44T7351.

17

THIS PART IS EXEMPT FROM CORP STANDARD C-51-1121-003 COUNTRY OF ORIGIN MARKING REQUIREMENTS PER THE IBM IMPORT COMPLIANCE OFFICE.

18

COEFFICIENT OF THERMAL EXPANSION OF HOUSING TO BE 15 +/- 5 PPM PER DEGREE C.

19

BGA COPLANARITY TO BE +/- 0.101mm (± 4 MILS) ACROSS ENTIRE PART.

20

INTERPOSERS TO BE SHIPPED IN JEDEC TRAY ALLOWING FOR PICK AND PLACE POPULATION.

21

INTERPOSER FRAME TO ALLOW FINGER ACCESS FEATURES FOR EASY REMOVAL OF MODULE.

22

THE MAX FRAME HEIGHT MUST BE LESS THAN THE SEATED HEIGHT OF THE MODULE TO ENSURE THAT THE ATTACHED HEATSINK MAKES CONTACT WITH THE MODULE AND DOES NOT BOTTOM OUT ON THE FRAME.

23

FRAME MUST INCLUDE BUMP FEATURES TO ACCEPT CIRCULAR KEYING FEATURES ON MODULE INSERT.

24

DESIGNATED KEEP-OUT IS COMPONENT FREE AREA BUT MAY CONTAIN SURFACE WIRING ELEMENTS.

25

PICK AND PLACE COVER MUST HAVE A 1" SQUARE LAND, CENTRALIZED, FOR VAC EXTRACTION.

26

COVER MATERIAL MUST WITHSTAND REWORK TEMPS.

27

CONNECTOR MUST WITHSTAND OPERATING TEMP OF 105°C.

28

MAXIMUM PROCESSING TEMP MUST BE SPECIFIED BY VENDOR.

29

HOUSING MATERIAL TYPE & GRADE TO BE DISCLOSED TO IBM ENGINEERING DEVELOPEMENT.

30

LGA SOCKET CURRENT PERFORMANCE REQUIREMENTS:  
  
A. NOT RATED FOR CURRENT INTERRUPTION  
  
B. HIGHEST APPLICATION CURRENT DENSITY OF 1.5 A/mm^2 AND 30 C TEMPERATURE RISE IN TEST VEHICLE.  
  
C. MAXIMUM CURRENT TO BE DERATED BASED ON SPECIFIC DESIGN AND APPLICATION REQUIREMENTS ALONG WITH END-OF-LIFE RESISTANCE INCREASE FROM RELIABILITY TEST RESULTS  
  
31 +/- 15% LOAD VARIATION DUE TO TOLERANCE STACK UP.

1

2

3

4

5

6

7

8

9

10

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

74Y5640

11

HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

11

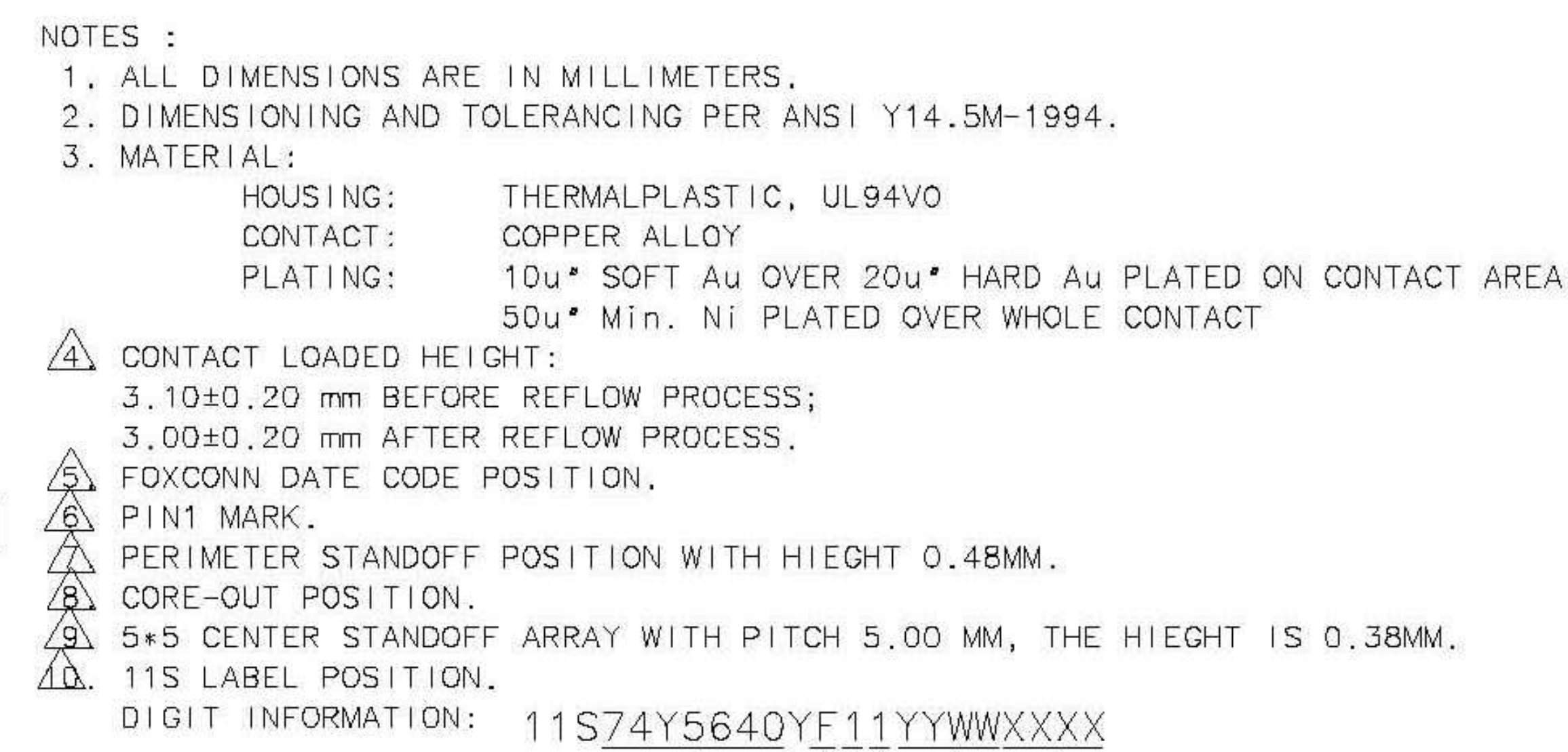
HYBRID 2296 LGA SOCKET

REMOVE

FOXCONN

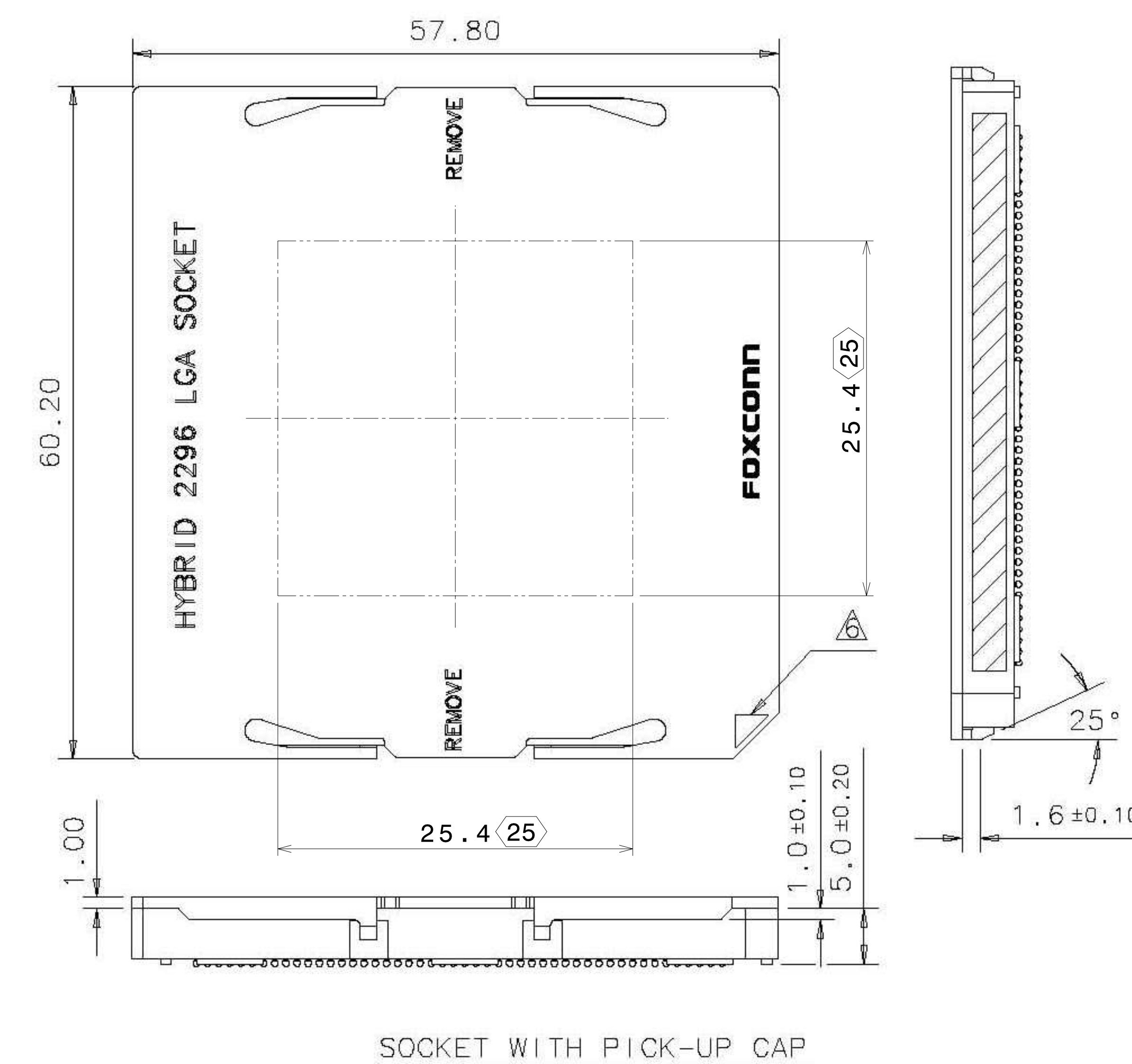
<









11. HARMFUL MATERIAL CONTROL PLEASE FOLLOW DOC. NO. \*EPI12\*.

12. PLEASE CONTACT FOXCONN SALES REPRESENTATIVE TO VERIFY PRODUCT DETAIL AND AVAILABILITY.

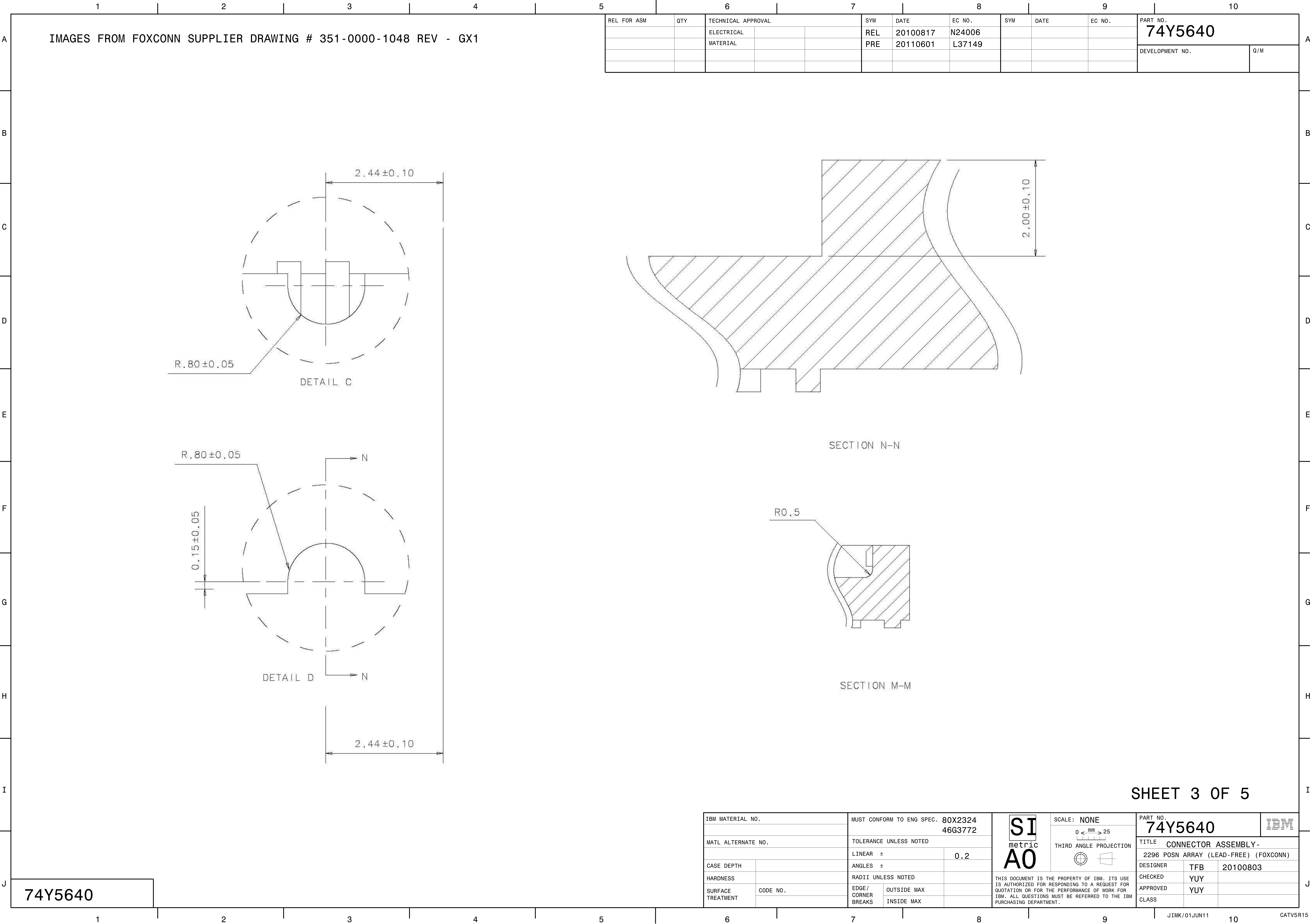


SHEET 2 OF 5

74Y5640

IBM MATERIAL NO.		MUST CONFORM TO ENG SPEC. 80X2324 46G3772			SCALE: NONE  THIRD ANGLE PROJECTION 	PART NO. <b>74Y5640</b>		
MATL ALTERNATE NO.		TOLERANCE UNLESS NOTED				TITLE CONNECTOR ASSEMBLY- 2296 POSN ARRAY (LEAD-FREE) (FOXCONN)		
CASE DEPTH		LINEAR ±	0.2	THIS DOCUMENT IS THE PROPERTY OF IBM. ITS USE IS AUTHORIZED FOR RESPONDING TO A REQUEST FOR QUOTATION OR FOR THE PERFORMANCE OF WORK FOR IBM. ALL QUESTIONS MUST BE REFERRED TO THE IBM PURCHASING DEPARTMENT.		DESIGNER	TFB	20100803
HARDNESS		RADII UNLESS NOTED				CHECKED	YUY	
SURFACE TREATMENT	CODE NO.	EDGE/ CORNER BREAKS	OUTSIDE MAX INSIDE MAX			APPROVED	YUY	
						CLASS		





IMAGES FROM FOXCONN SUPPLIER DRAWING # 351-0000-1048 REV - GX1

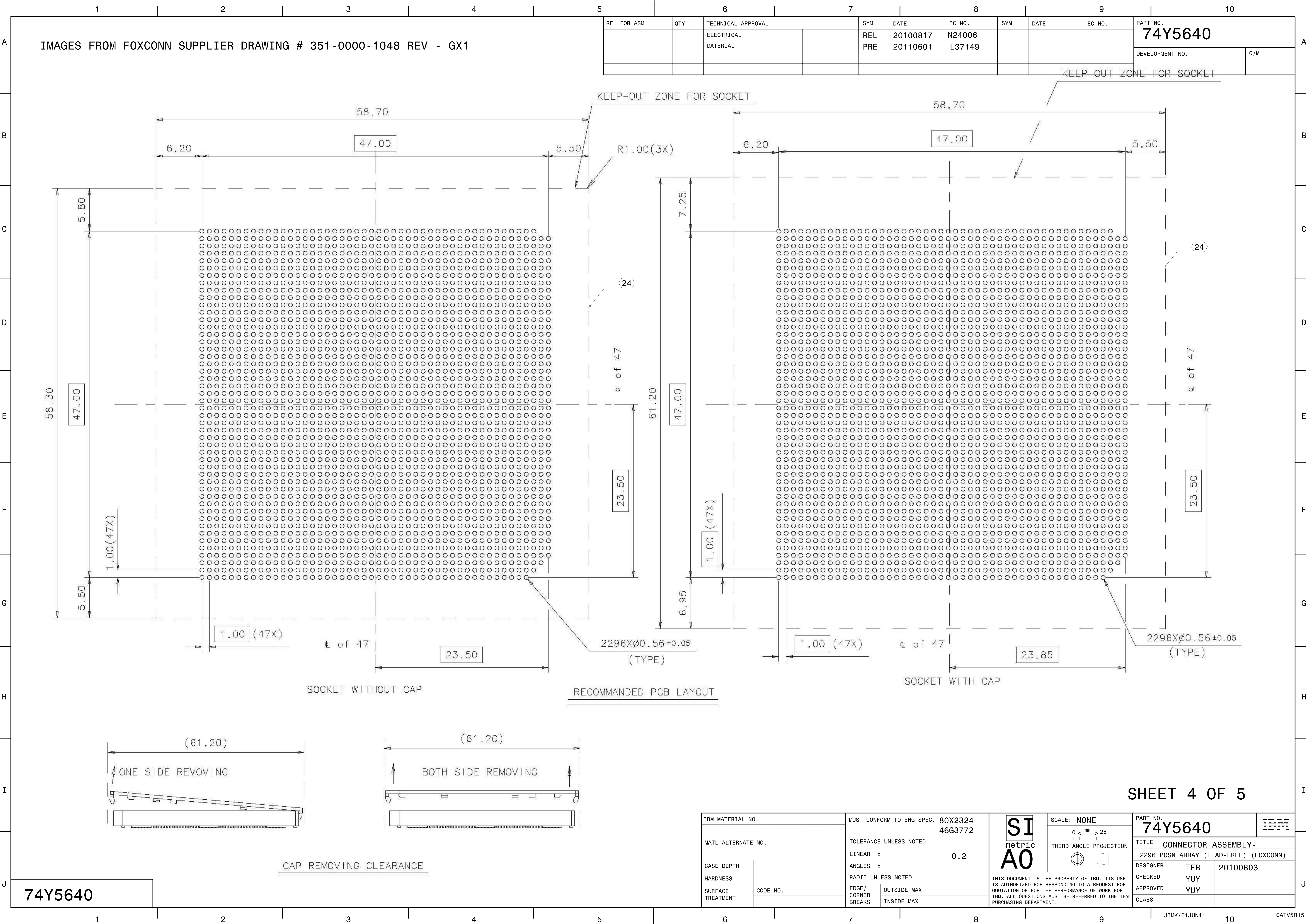
REL FOR ASM	QTY	TECHNICAL APPROVAL			SYM	DATE	EC NO.	SYM	DATE	EC NO.	PART NO. <b>74Y5640</b>	
		ELECTRICAL			REL	20100817	N24006					
		MATERIAL			PRE	20110601	L37149					
											DEVELOPMENT NO.	Q/M

SHEET 3 OF 5

74Y5640

IBM MATERIAL NO.		MUST CONFORM TO ENG SPEC. 80X2324 46G3772		<div>SI metric A0</div>	SCALE: NONE <div>0 &lt; mm &gt; 25</div> THIRD ANGLE PROJECTION <div></div>	PART NO. <b>74Y5640</b>		
MATL ALTERNATE NO.		TOLERANCE UNLESS NOTED				TITLE CONNECTOR ASSEMBLY- 2296 POSN ARRAY (LEAD-FREE) (FOXCONN)		
CASE DEPTH		LINEAR ±	0.2			ANGLES ±		DESIGNER
HARDNESS		RADII UNLESS NOTED		THIS DOCUMENT IS THE PROPERTY OF IBM. ITS USE IS AUTHORIZED FOR RESPONDING TO A REQUEST FOR QUOTATION OR FOR THE PERFORMANCE OF WORK FOR IBM. ALL QUESTIONS MUST BE REFERRED TO THE IBM PURCHASING DEPARTMENT.				
SURFACE TREATMENT	CODE NO.	EDGE / CORNER BREAKS	OUTSIDE MAX					
		INSIDE MAX						
						CHECKED	YUY	
						APPROVED	YUY	
						CLASS		







IMAGES FROM FOXCONN SUPPLIER DRAWING # 351-0000-1048 REV - GX1

REL FOR ASM	QTY	TECHNICAL APPROVAL			SYM	DATE	EC NO.	SYM	DATE	EC NO.	PART NO. <b>74Y5640</b>	
		ELECTRICAL			REL	20100817	N24006				DEVELOPMENT NO.	
		MATERIAL			PRE	20110601	L37149				Q/M	

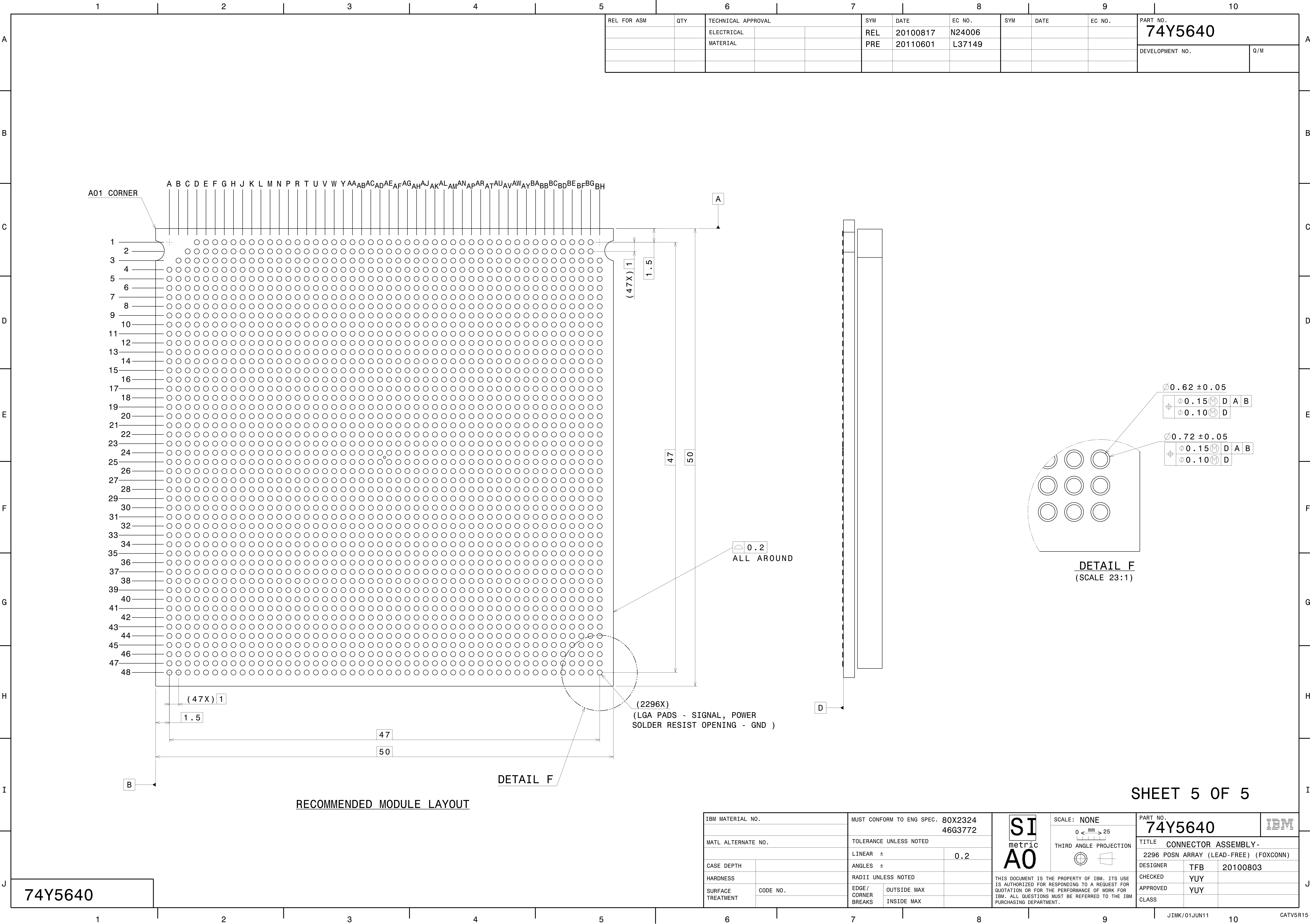
74Y5640

SHEET 4 OF 5

IBM MATERIAL NO.		MUST CONFORM TO ENG SPEC. 80X2324 46G3772		<div>SI metric A0</div>	<div>SCALE: NONE <div>0 &lt; mm &gt; 25</div> THIRD ANGLE PROJECTION <div></div></div>	PART NO. <b>74Y5640</b>		
MATL ALTERNATE NO.		TOLERANCE UNLESS NOTED				TITLE CONNECTOR ASSEMBLY- 2296 POSN ARRAY (LEAD-FREE) (FOXCONN)		
CASE DEPTH		LINEAR ±	0.2			DESIGNER	TFB	20100803
		ANGLES ±						
HARDNESS		RADII UNLESS NOTED		THIS DOCUMENT IS THE PROPERTY OF IBM. ITS USE IS AUTHORIZED FOR RESPONDING TO A REQUEST FOR QUOTATION OR FOR THE PERFORMANCE OF WORK FOR IBM. ALL QUESTIONS MUST BE REFERRED TO THE IBM PURCHASING DEPARTMENT.				
SURFACE TREATMENT	CODE NO.	EDGE/ CORNER BREAKS	OUTSIDE MAX					
			INSIDE MAX					

THIS DOCUMENT IS THE PROPERTY OF IBM. ITS USE IS AUTHORIZED FOR RESPONDING TO A REQUEST FOR QUOTATION OR FOR THE PERFORMANCE OF WORK FOR IBM. ALL QUESTIONS MUST BE REFERRED TO THE IBM PURCHASING DEPARTMENT.





REL FOR ASM	QTY	TECHNICAL APPROVAL			SYM	DATE	EC NO.	SYM	DATE	EC NO.	PART NO.	
		ELECTRICAL			REL	20100817	N24006				74Y5640	
		MATERIAL			PRE	20110601	L37149					

SHEET 5 OF 5

IBM MATERIAL NO.		MUST CONFORM TO ENG SPEC. 80X2324 46G3772		<div>SI metric A0</div>	<div>SCALE: NONE <div>0 &lt; mm &gt; 25</div> THIRD ANGLE PROJECTION <div></div></div>	PART NO. <b>74Y5640</b>		
MATL ALTERNATE NO.		TOLERANCE UNLESS NOTED				TITLE CONNECTOR ASSEMBLY- 2296 POSN ARRAY (LEAD-FREE) (FOXCONN)		
CASE DEPTH		LINEAR ±	0.2			DESIGNER	TFB	20100803
		ANGLES ±				CHECKED	YUY	
HARDNESS		RADII UNLESS NOTED				APPROVED	YUY	
SURFACE TREATMENT	CODE NO.	EDGE / CORNER BREAKS	OUTSIDE MAX	THIS DOCUMENT IS THE PROPERTY OF IBM. ITS USE IS AUTHORIZED FOR RESPONDING TO A REQUEST FOR QUOTATION OR FOR THE PERFORMANCE OF WORK FOR IBM. ALL QUESTIONS MUST BE REFERRED TO THE IBM PURCHASING DEPARTMENT.		CLASS		
			INSIDE MAX					