

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

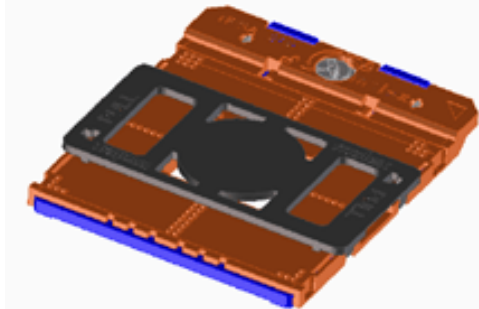
0479890142

Status:

Active

Description:

1.00mm (.039") by 1.00mm (.039") Pitch rPGA 989 Notebook PC CPU Socket, with Pick-and-Place Cover, Tape on Reel Packaging, 989 Circuits, Lead free



Series

image - Reference only

Documents:

- [Drawing \(PDF\)](#)
- [RoHS Certificate of Compliance \(PDF\)](#)
- [Product Specification PS-47989-001 \(PDF\)](#)

General

Product Family	Processor Sockets
Series	47989
Comments	Pick-and-Place Cap
Component Type	Socket
Product Name	rPGA989

Physical

Circuits (Loaded)	989
Color - Resin	Black, Natural
Durability (mating cycles max)	30
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Copper, Silver, Tin
Material - Resin	High Temperature Thermoplastic
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.039 In
Pitch - Mating Interface (mm)	1.00 mm
Plating min: Mating (µin)	15
Plating min: Mating (µm)	0.38
Temperature Range - Operating	-20°C to +90°C
Termination Interface: Style	Solder or Weld

Electrical

Current - Maximum per Contact	.5A
Voltage - Maximum	5V

Solder Process Data

Duration at Max. Process Temperature (seconds)	3
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	245

Material Info

Reference - Drawing Numbers

Packaging Specification	PK-47989-001
Product Specification	PS-47989-001
Sales Drawing	SD-47989-001

Intel and Nehalem and relevant names are either trademarks or registered trademarks of Intel Corporation

EU RoHS

ELV and RoHS
Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free
Status

China RoHS



Need more information on product environmental compliance?

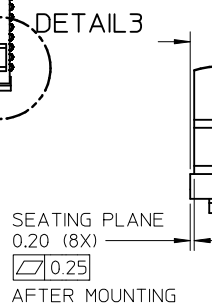
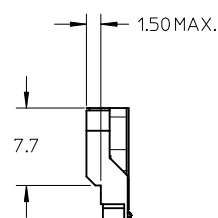
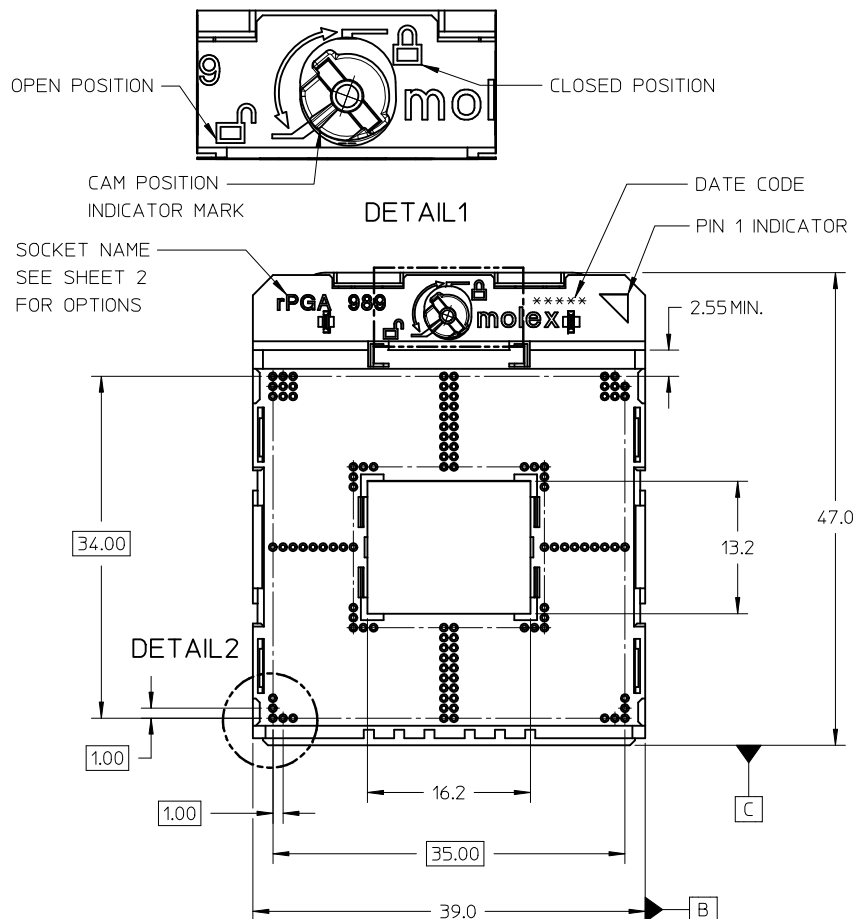
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series
47989Series

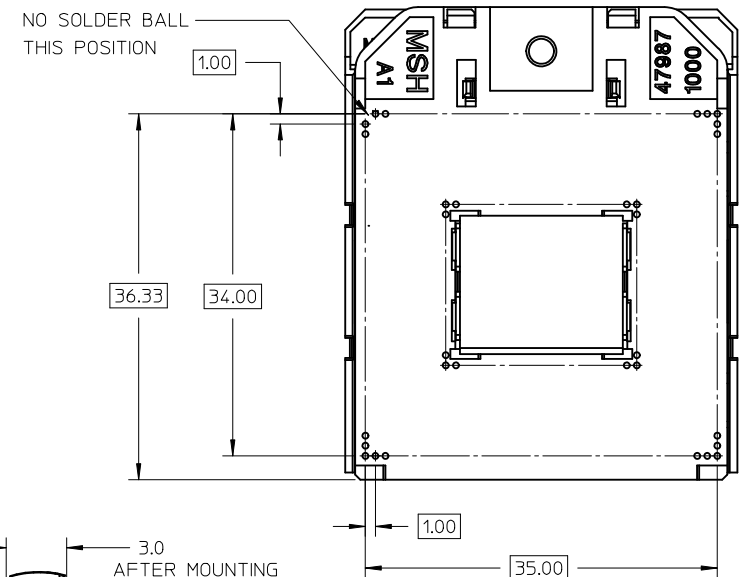
Mates With
Intel® Nehalem Processor

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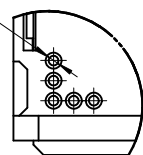
NOTES:

- 1) THIS SOCKET COMPLIES WITH ALL SPECIFICATIONS AND PERFORMANCE REQUIREMENTS FOR INTEL rPGA98X SERIES CPU PROCESSORS.
- 2) SOCKET SHOWN IN OPEN POSITION.
- 3) SEE SHEET 2 FOR DETAILS PERTAINING TO KEYING, MATERIAL AND PACKAGING OPTIONS.
- 4) THIS PRODUCT SERIES COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV DIRECTIVE 2000/53/EC.



Ø 0.49 REF. (989X)

⊕	Ø 0.41	M	A	B	C
⊕	Ø 0.25	A			



DETAIL2

ENTER DESCRIPTION EC NO: SH2010-0084 DRWN: ZHANG11 CHKD: APPR: WDENG			DESCRIPTION	QUALITY SYMBOLS F_A=0 F_G=0 F_P=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	TITLE RPGA989 SOCKET ASSEMBLY		
					4 PLACES 3 PLACES 2 PLACES 1 PLACE	mm	INCH	DRAWN BY QWFANG	DATE 2008/04/25	MOLEX MOLEX INCORPORATED					
						± ---	± ---	CHECKED BY JKACHLIC	DATE 2008/05/29						
						± 0.10	± ---	APPROVED BY CL IANG	DATE 2008/05/29						
						± 0.20	± ---	MATERIAL NO.						DOCUMENT NO.	
					ANGULAR ± 2 °										
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					SEE TABLE				SD-47989-001	
					SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

Technical drawing of the rPGA 989 connector, showing top and bottom views. The top view includes a central circular area with diagonal hatching, surrounded by a rectangular frame. The bottom view shows a similar frame with a central circular area. Dimensions are provided for the overall width and height.

Top View Labels:

- rPGA 989
- molex
- PULL

Bottom View Labels:

- molex
- PULL

Dimensions:

- Overall Width: 40.80 ± 0.10

20.5

1.4 -

DETAIL 40:1

4) PACKAGING SPECIFICATION: PK-47989-001 (TAPE & REEL)
PK-47989-002 (HARD TRAY)

MYLAR -

PGA988B
47989-03**

PART NUMBER	PICK UP TYPE		PACKAGE TYPE	
	MYLAR	CAP	T&R	HARD TRAY
47989-0112	◆			◆
47989-0122	◆		◆	
47989-0132		◆		◆
47989-0142		◆	◆	
47989-0212	◆			◆
47989-0222	◆		◆	
47989-0232		◆		◆
47989-0242		◆	◆	
47989-0312	◆			◆
47989-0322	◆		◆	
47989-0332		◆		◆
47989-0342		◆	◆	

ENTER DESCRIPTION EC NO: SH2010-0084 DRAWN: ZHANG11 CHKD: APPR: WFDENG	2009/09/25 2009/09/25 2009/10/12	QUALITY SYMBOLS 	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
	DESCRIPTION RPGA989 SOCKET ASSEMBLY		mm	INCH	DRAWN BY	DATE	TITLE		
			4 PLACES ± --- ± ---	QWFANG	2008/04/25				
			3 PLACES ± --- ± ---	CHECKED BY	DATE				
			2 PLACES ± 0.10 ± ---	JKACHLIC	2008/05/29				
1 PLACE ± 0.20 ± ---	APPROVED BY	DATE							
ANGULAR ± 2 °		CLANG	2008/05/29	MOLEX INCORPORATED		DOCUMENT NO.	SHEET NO.		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-47989-001		2 OF 3			
REV A	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

10 9 8 7 6 5 4 3 2 1

F

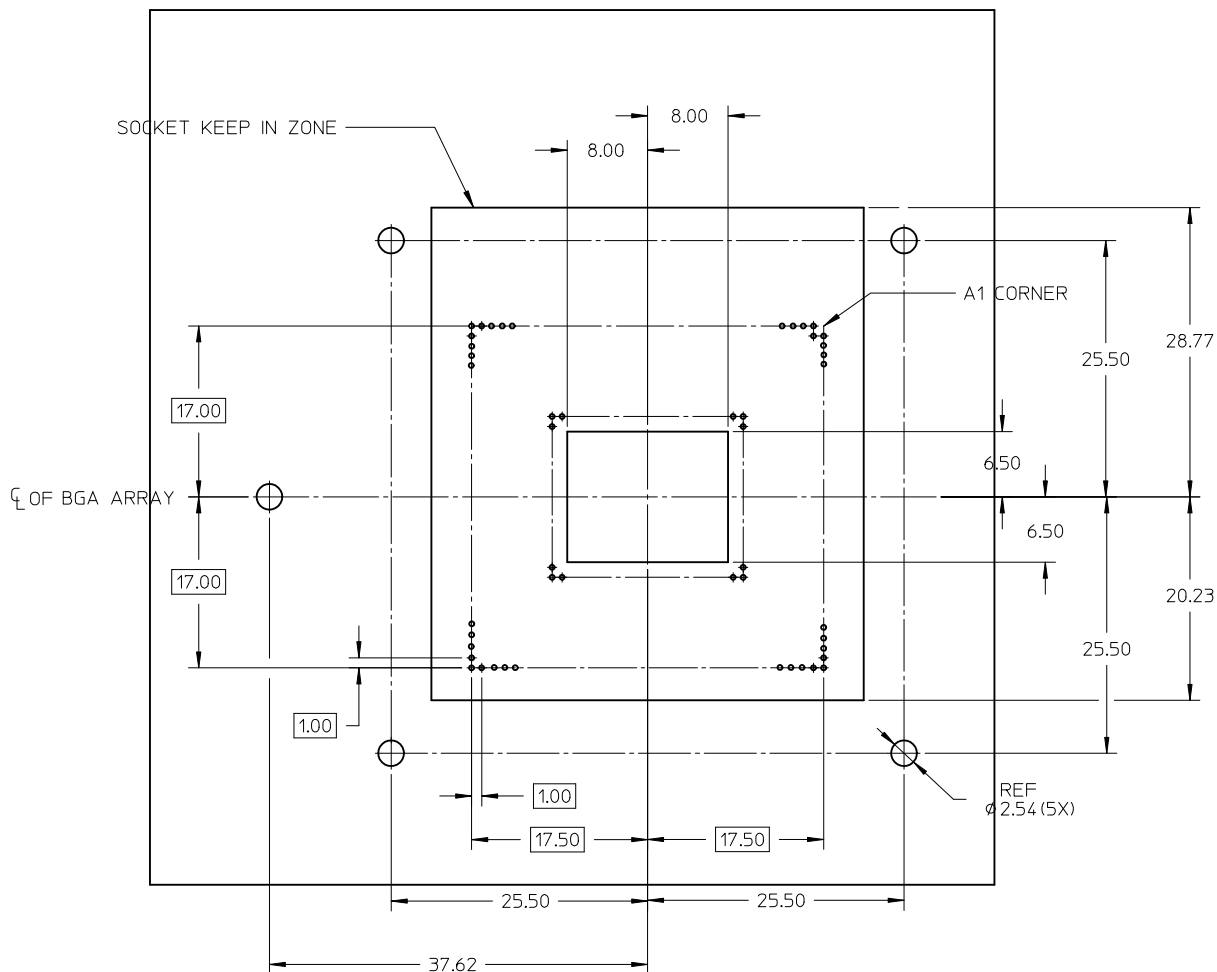
E

D

C

B

A

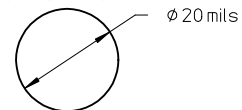


MOTHERBOARD KEEP IN ZONE (KIZ)

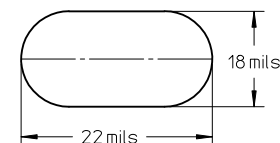
NOTES:

shape pada of PCB are recommended

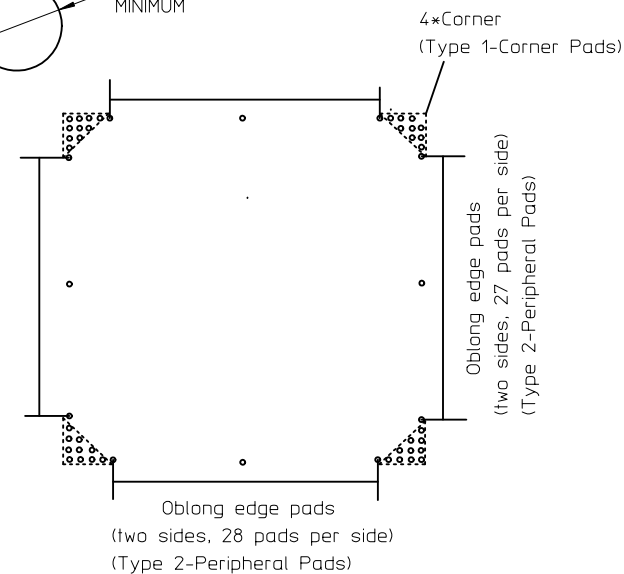
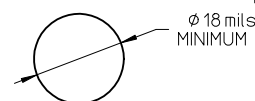
TYPE1-Corner Pads



TYPE2-Peripheral Pads (Oblong-shape pada are recommended)



TYPE3-All Other Location Except for those of Type1 and Type2 Locations)



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				mm	INCH	DRAWN BY QWFANG	DATE 2008/04/25	TITLE RPGA989 SOCKET ASSEMBLY		
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			3 PLACES	± ---	± ---					
			2 PLACES	± 0.10	± ---					
			1 PLACE	± 0.20	± ---	APPROVED BY CL IANG	DATE 2008/05/29	 MOLEX INCORPORATED		
			ANGULAR ± 2 °			MATERIAL NO.		DOCUMENT NO.		SHEET NO.
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-47989-001		3 OF 3
A	REV					SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

9 8 7 6 5 4 3 2 1