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Part Number: [0479890222](#)
Status: **Active**
Description: 1.00mm (.039") by 1.00mm (.039") Pitch rPGA 988A Notebook PC CPU Socket,with Mylar, Tape-on-Reel Packaging, 988 Circuits, Lead free

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

General
Product Family Processor Sockets
Series [47989](#)
Comments Mylar
Component Type Socket
Product Name rPGA988A, rPGA989

Physical
Circuits (Loaded) 988
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

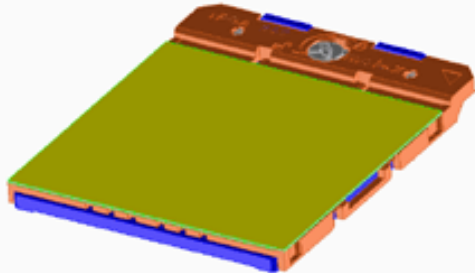
Electrical
Current - Maximum per Contact .5A
Voltage - Maximum 5V

Solder Process Data
Duration at Max. Process Temperature (seconds) 10
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

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Series
image - Reference only

EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
Halogen-Free
Status
Halogen-Free

China RoHS

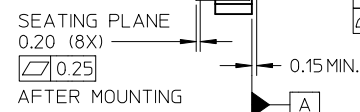
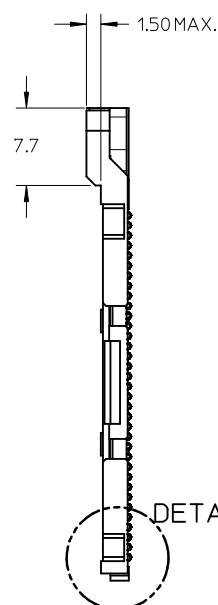
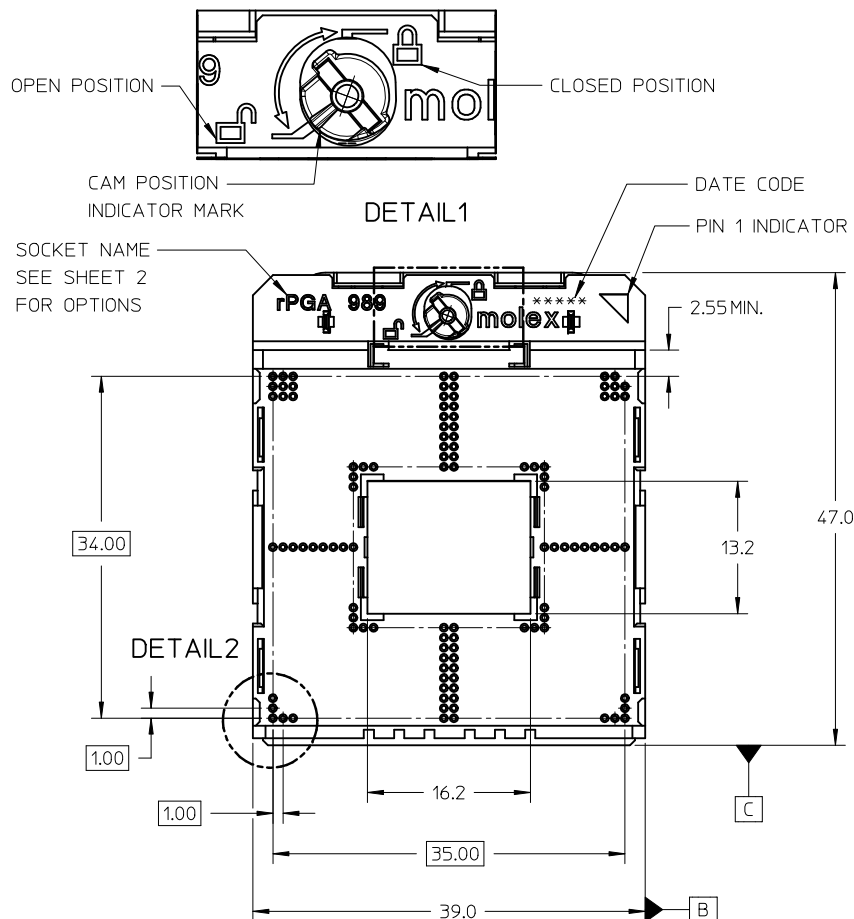


Need more information on product environmental compliance?
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)
Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series
[47989Series](#)

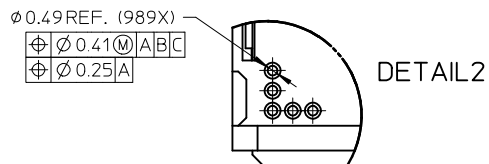
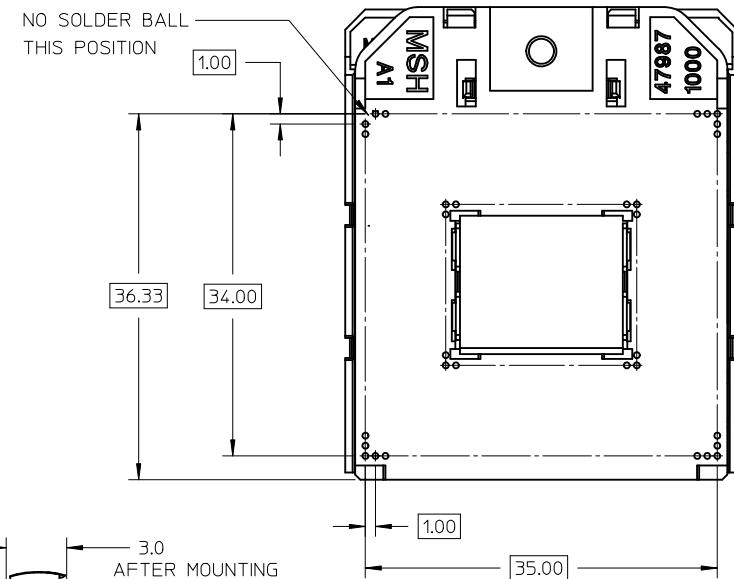
Mates With
Intel* Nehalem Processor

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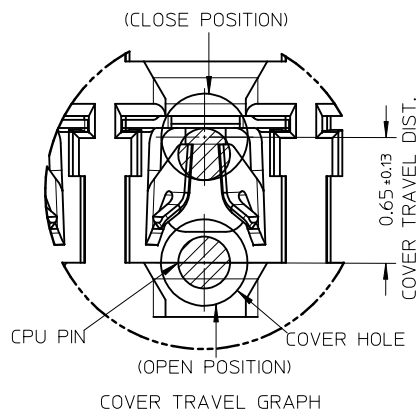
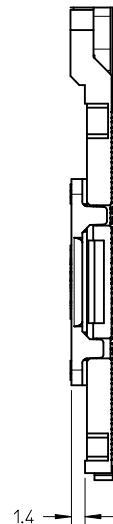
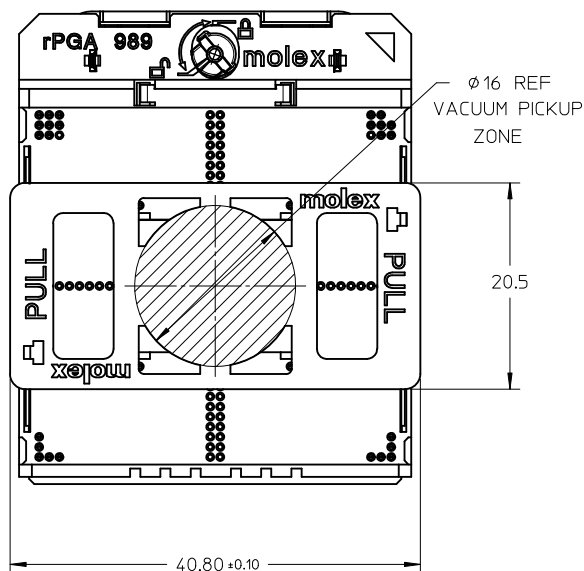
DETAIL3

- 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.



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

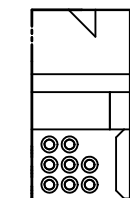
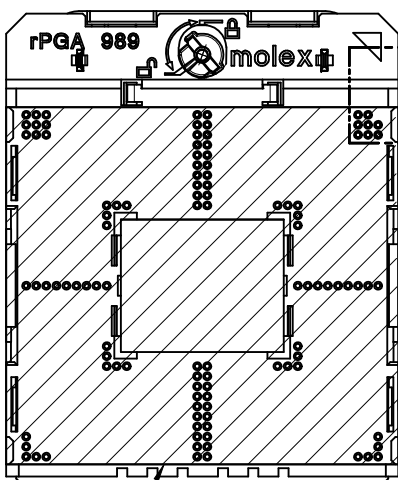
REMOVEABLE PICK & PLACE CAP



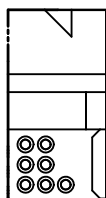
DETAIL 40:1

SOCKET KEYING OPTIONS

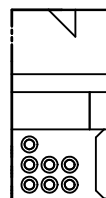
MYLAR PICK & PLACE OPTION



rPGA989
47989-01**



rPGA988A
47989-02**



rPGA988B
47989-03**

NOTES:

1) MATERIALS:

MOLDED COMPONENTS: LIQUID CRYSTAL POLYMER (LCP) UL 94V-0
BASE HOUSING COLOR: BLACK
COVER COLOR: NATURAL
MYLAR(POLYIMIDE, COLOR:ORANGE) OR PnP COVER(LCP, COLOR: BLACK)
FOR PICK & PLACE.
CONTACTS: HIGH STRENGTH COPPER ALLOY
PLATING: 0.38um GOLD IN CONTACT AREA, 1.3um NICKEL OVERALL
CAM COMPONENTS: STAINLESS STEEL
SOLDER BALL: LEAD-FREE BALL SnAg3.0Cu0.5

2) DATE CODE *****

MOLEX INTERNAL USE
WORKING DAY
MONTH
YEAR

3) PRODUCT SPECIFICATION 47989-001 APPLIES

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

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 DRWN: JZHANG11 CHKD: APPR: WEDENG	REV A	DESCRIPTION REV	QUALITY SYMBOLS FA=0 FC=0 FD=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.10 ± --- 1 PLACE ± 0.20 ± --- ANGULAR ± 2 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION STYLE MM ONLY DRAWN BY DATE QWFANG 2008/04/25 CHECKED BY DATE JKACHLIC 2008/05/29 APPROVED BY DATE CL IANG 2008/05/29 MATERIAL NO. SEE TABLE	SCALE 2:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION	TITLE RPGA989 SOCKET ASSEMBLY	MOLEX INCORPORATED DOCUMENT NO. SD-47989-001	SHEET NO. 2 OF 3

10 9 8 7 6 5 4 3 2 1

F

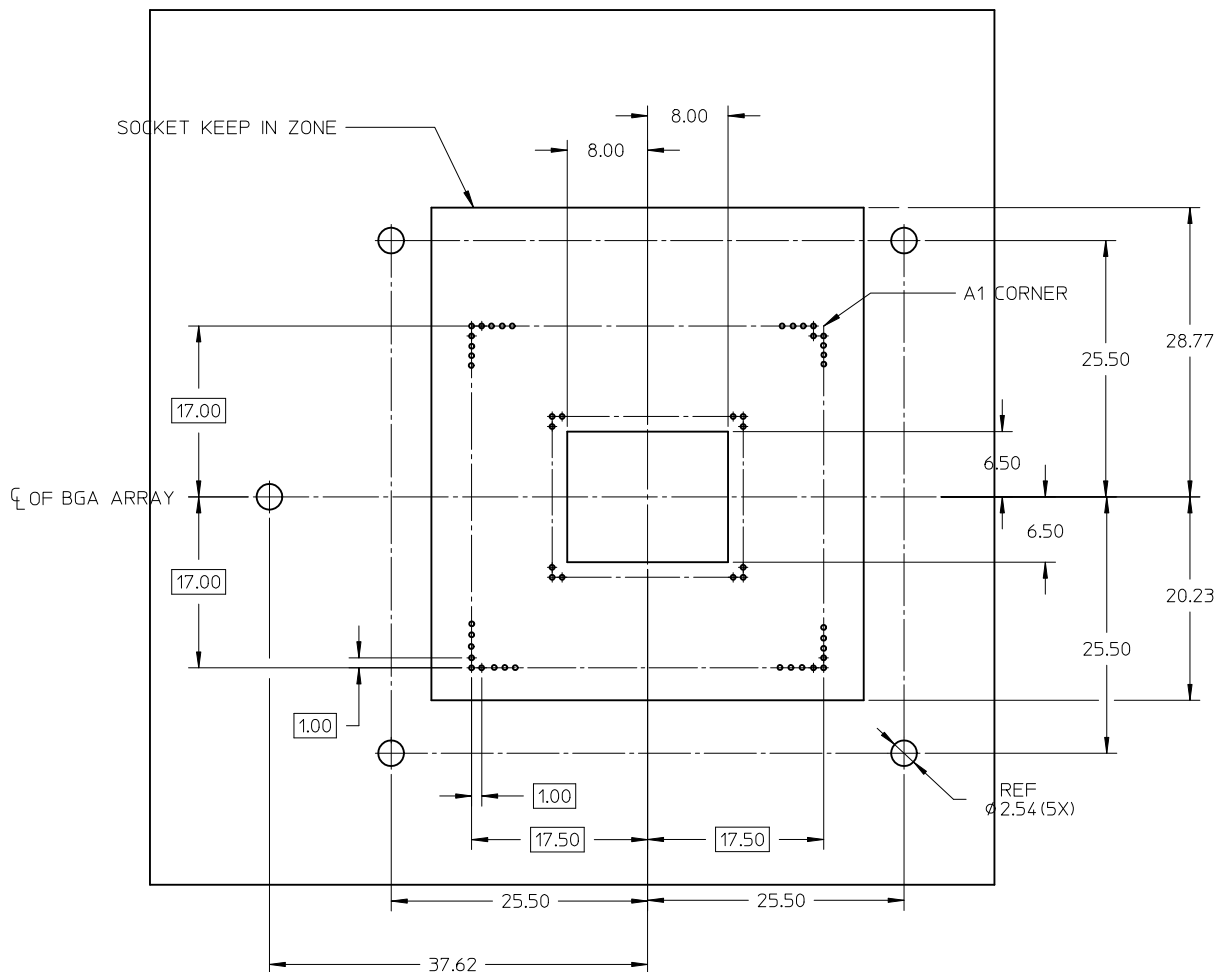
E

D

C

B

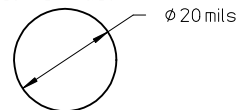
A



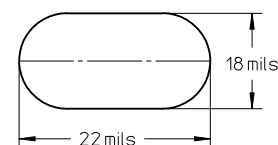
NOTES:

shape pada of PCB are recommended

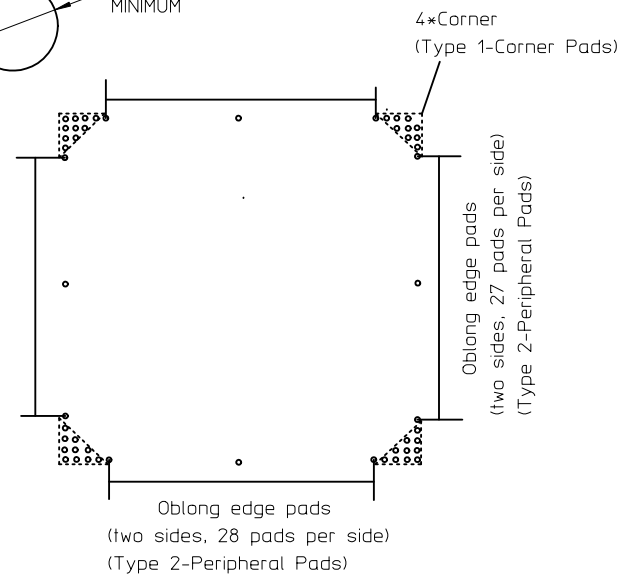
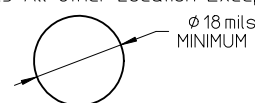
TYPE1-Corner Pads



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



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



MOTHERBOARD KEEP IN ZONE (KIZ)

ENTER DESCRIPTION EC NO: SH2010-0084 DRWN: JZHANG11 CHKD: APPR: WFDENG	DESCRIPTION	QUALITY SYMBOLS F_A=0 F_C=0 F_P=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm		INCH		DRAWN BY DATE		TITLE RPGA989 SOCKET ASSEMBLY			
			4 PLACES	± ---	± ---	QWFANG	2008/04/25					
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			1 PLACE	± 0.20	± ---	APPROVED BY	DATE					
			ANGULAR ± 2 °			CL IANG		2008/05/29	DOCUMENT NO.		SHEET NO.	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE			SD-47989-001			3 OF 3			
A	REV		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