

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0479890112](#)
Status: **Active**
Description: 1.00mm (.039") by 1.00mm (.039") Pitch rPGA 989 Notebook PC CPU Socket, with Mylar, Hard Tray Packaging, 989 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	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	Tray
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

Material Info

Reference - Drawing Numbers	
Packaging Specification	PK-47989-002
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

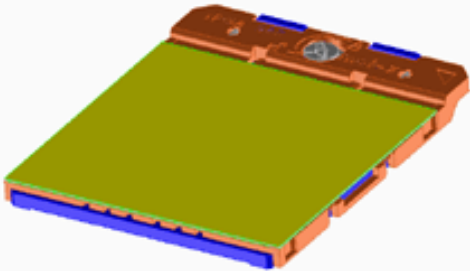


image - Reference only **Series**

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

China RoHS



Need more information on product environmental compliance?

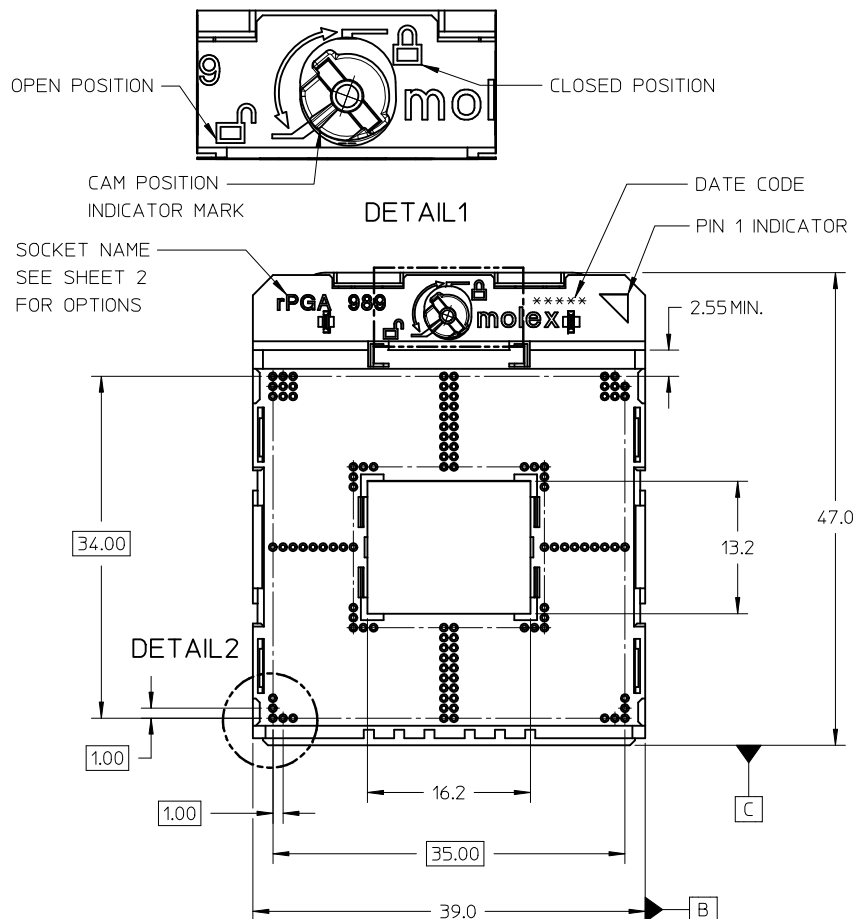
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

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

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

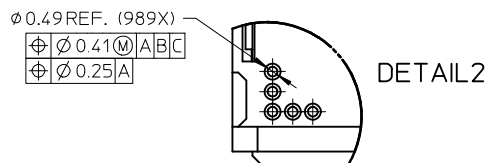
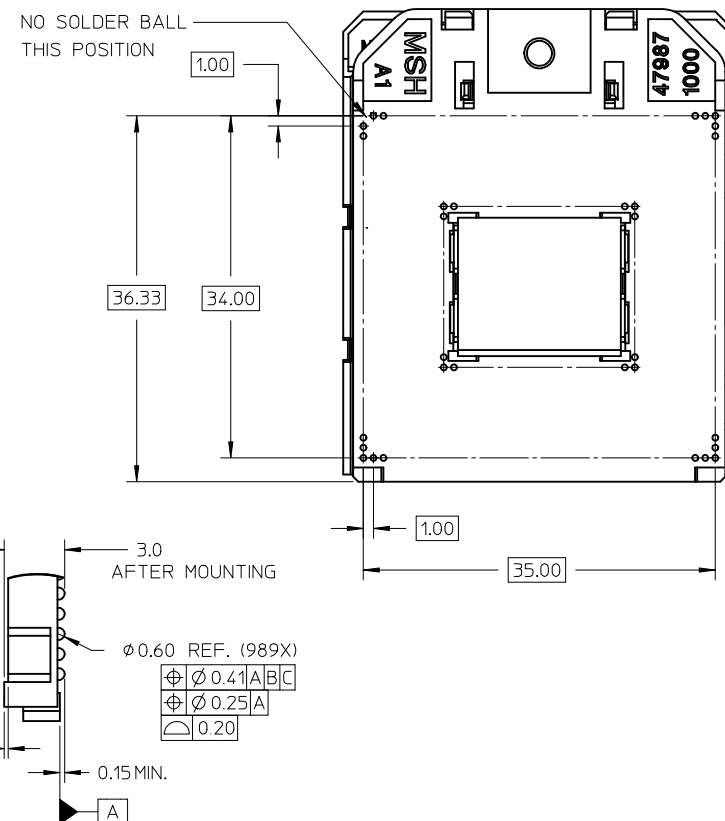
Mates With
Intel* Nehalem Processor

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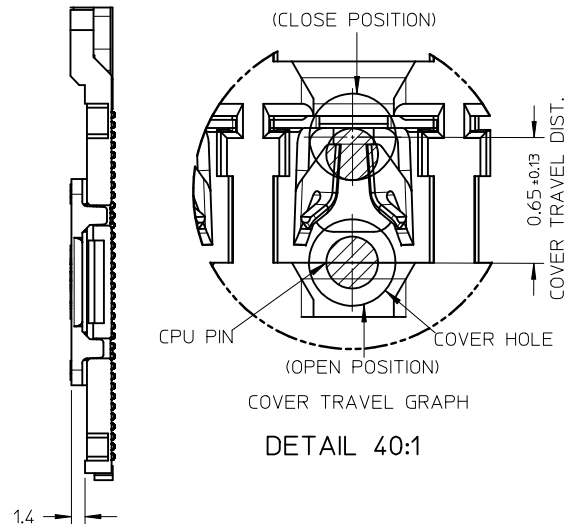
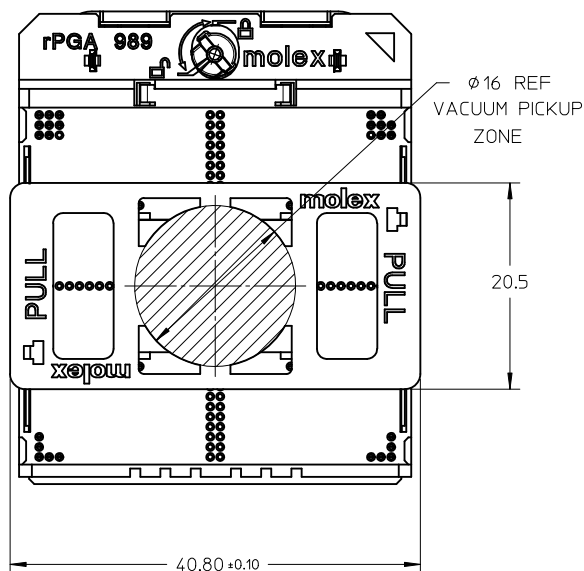
NOTES:

- 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.



ENTER DESCRIPTION EC NO: SH2010-0084 DRWN: JZHANG11 CHKD: APPR: WFDENG			DESCRIPTION	QUALITY SYMBOLS FA=0 FG=0 FP=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
						mm	INCH	DRAWN BY QWFANG		DATE 2008/04/25	TITLE RPGA989 SOCKET ASSEMBLY		
					4 PLACES	± ---	± ---	CHECKED BY JKACHLIC		DATE 2008/05/29			
					3 PLACES	± ---	± ---	APPROVED BY CL IANG		DATE 2008/05/29			
A			REV		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

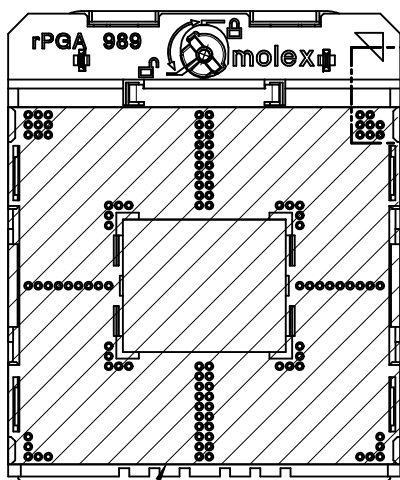


COVER TRAVEL GRAPH

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		QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
EC NO:	DRWN:						
SH2010-0084	JZHANG11	$F_A=0$	mm	MM ONLY	2:1	METRIC	
2009/09/25	2009/09/25	$F_G=0$	INCH				
CHKD:	CHKD:	$F_P=0$					
APPR:WFDENG	APPR:WFDENG						
REV	REV						

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APPR:WFDENG	APPR:WFDENG						
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CHKD:	CHKD:	$F_P=0$					
APPR:WFDENG	APPR:WFDENG						
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EC NO:	DRWN:						
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2009/09/25	2009/09/25	$F_G=0$	INCH				
CHKD:	CHKD:	$F_P=0$					
APPR:WFDENG	APPR:WFDENG						
REV	REV						

10 9 8 7 6 5 4 3 2 1

F

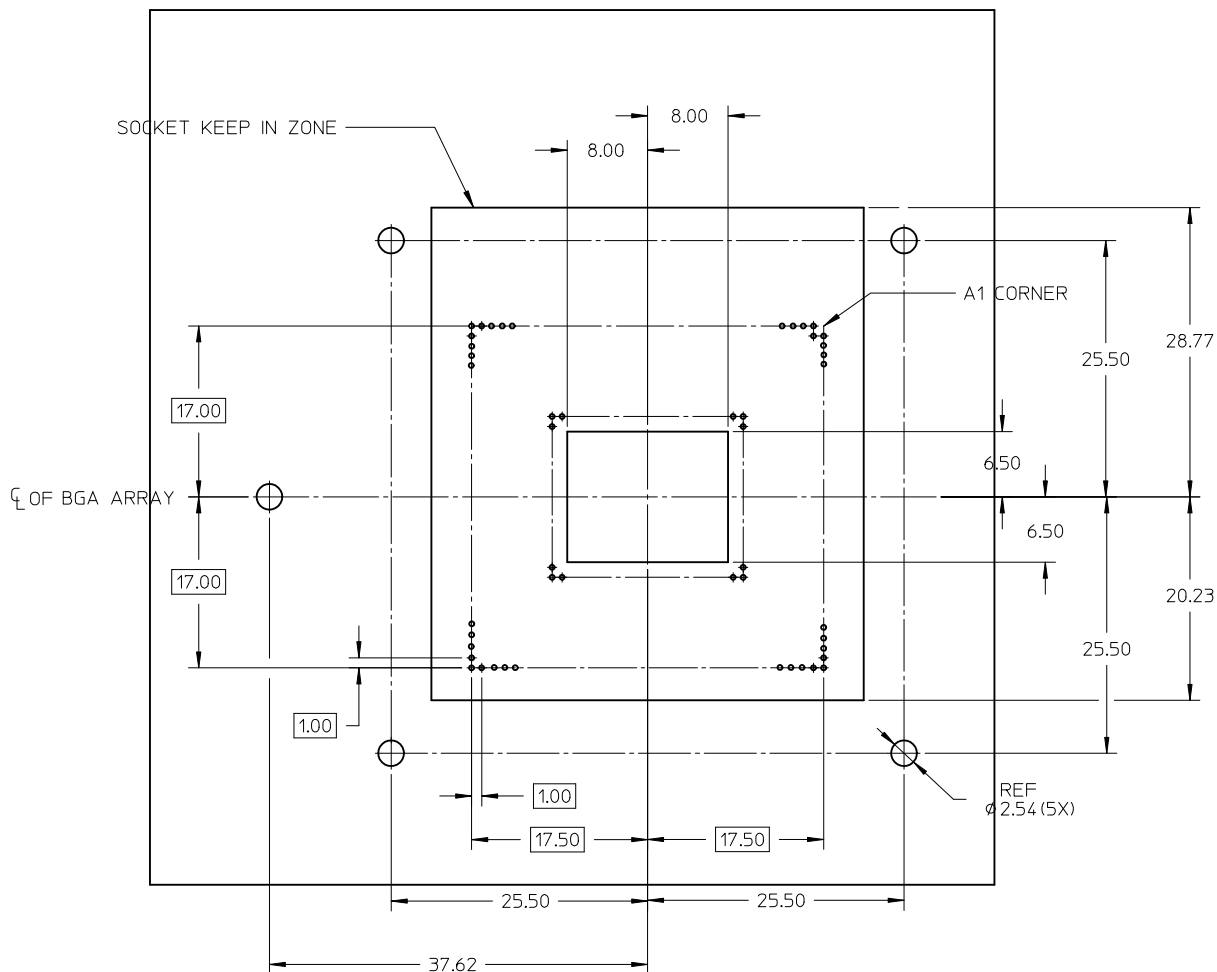
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D

C

B

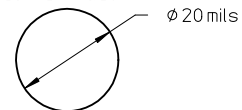
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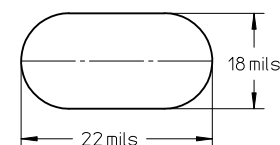
NOTES:

shape pada of PCB are recommended

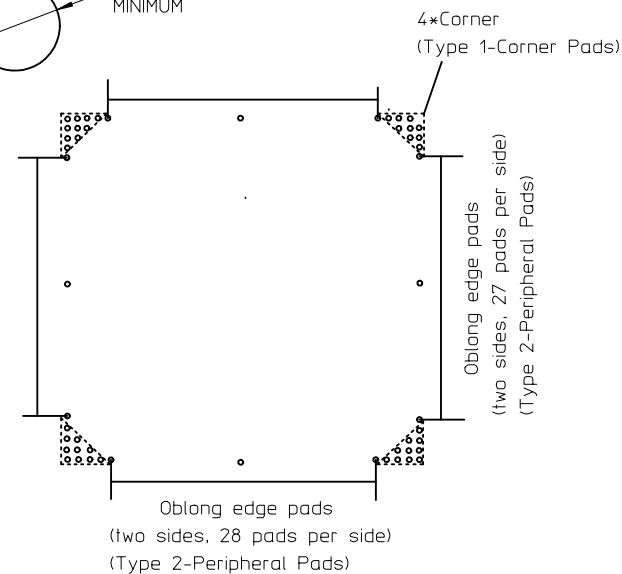
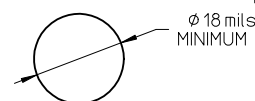
TYPE1-Corner Pads



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)

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			2 PLACES	± 0.10	± ---						
A			1 PLACE	± 0.20	± ---			molex MOLEX INCORPORATED			
			ANGULAR ± 2 °			MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
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