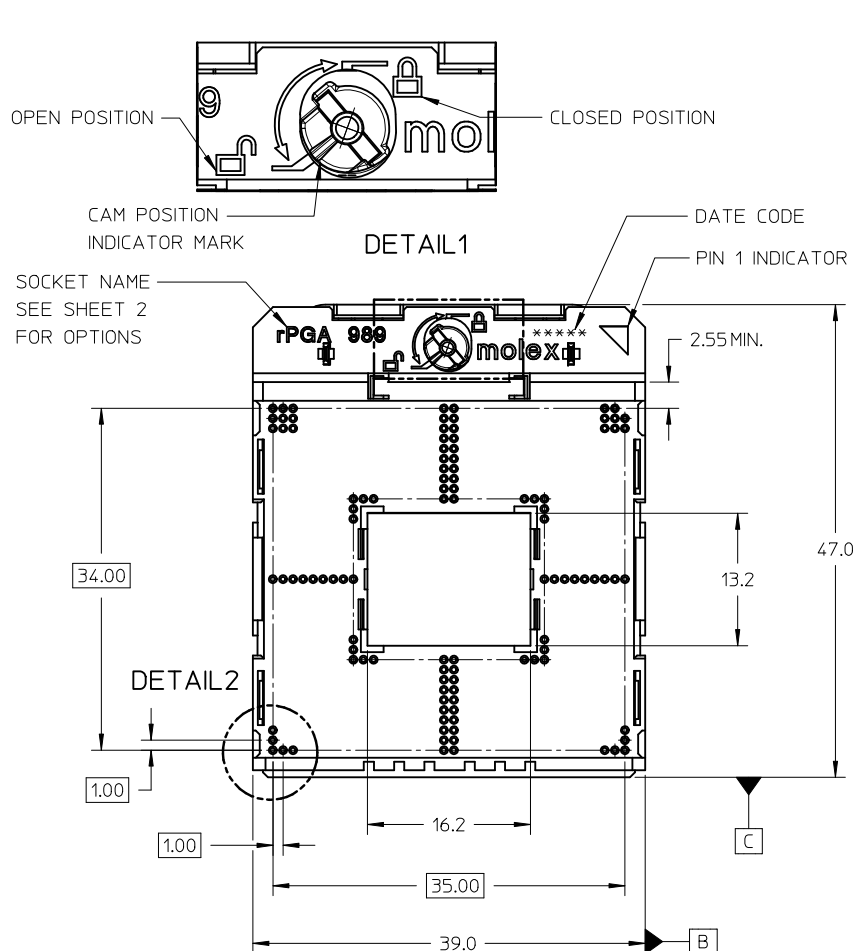
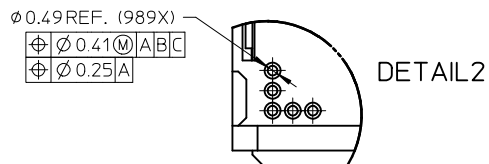
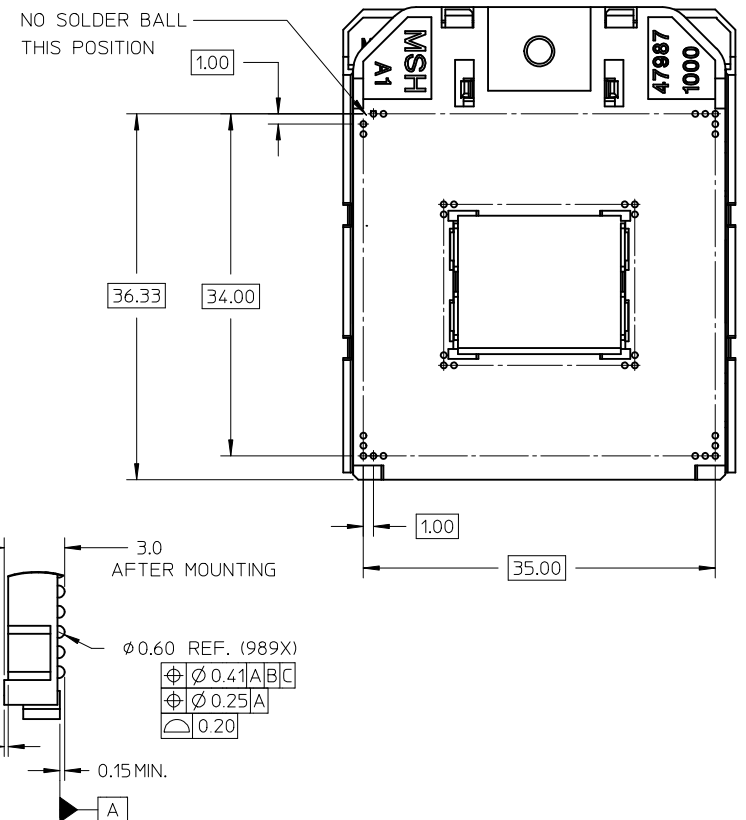




NOTES:

- 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.



REVISED EC NO: SH2011-0076 DRAWN: ZYYAN CHKD: APPR: AYIN	2010/09/03 2010/09/06 2010/09/17	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	
						DRAWN BY QWFANG	DATE 2008/04/25	TITLE RPGA989 SOCKET ASSEMBLY			
						CHECKED BY JKACHLIC	DATE 2008/05/29				
						APPROVED BY CL IANG	DATE 2008/05/29				
						MATERIAL NO.					DOCUMENT NO.
						SEE TABLE		SD-47989-001			1 OF 6
						SIZE A3		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

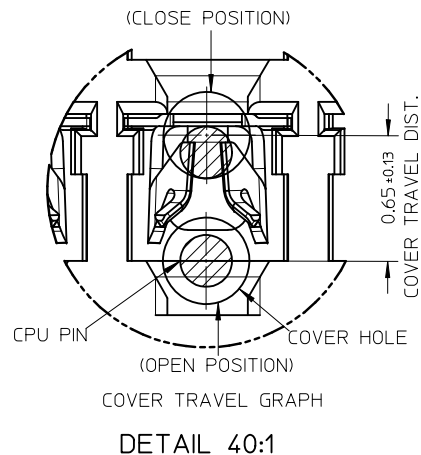
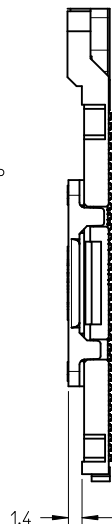
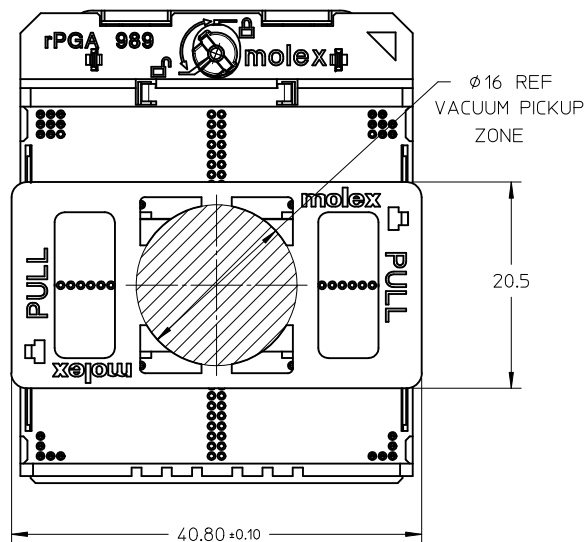
D

C

B

A

REMOVEABLE PICK & PLACE CAP



NOTES:

1) MATERIALS:

MOLDED COMPONENTS: LIQUID CRYSTAL POLYMER (LCP) UL 94V-0
BASE HOUSING COLOR: BLACK
COVER COLOR: NATURAL
MYLAR(POLYIMIDE, COLOR:ORANGE) OR PhP COVER(LCP, COLOR: BLACK)
FOR PICK & PLACE.
CONTACTS: HIGH STRENGTH COPPER ALLOY
PLATING: GOLD THICKNESS AS FOLLOWING TABLE 1-3 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 PS-47989-00* APPLIES

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

9

8

7

6

5

4

3

2

1

REVISED EC NO: SH2011-0076 DRWN:ZYIAN CHKD: APPR:AYIN REV	DESCRIPTION 2010/09/03 2010/09/06 2010/09/17	QUALITY SYMBOLS $\nabla_F=0$ $\nabla_C=0$ $\nabla_P=0$	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	$\pm$ ---	$\pm$ ---	CHECKED BY JKACHLIC	DATE 2008/05/29													
			3 PLACES	$\pm$ ---	$\pm$ ---	APPROVED BY CL IANG		DATE 2008/05/29	molex MOLEX INCORPORATED											
			2 PLACES	$\pm$ 0.10	$\pm$ ---															
			1 PLACE	$\pm$ 0.20	$\pm$ ---	DOCUMENT NO. SD-47989-001														
			ANGULAR $\pm$ 2 °											SHEET NO. 2 OF 6						
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																	
			MATERIAL NO. SEE TABLE																	
			SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															

PART NO. OF GF PLATING- TABLE 1

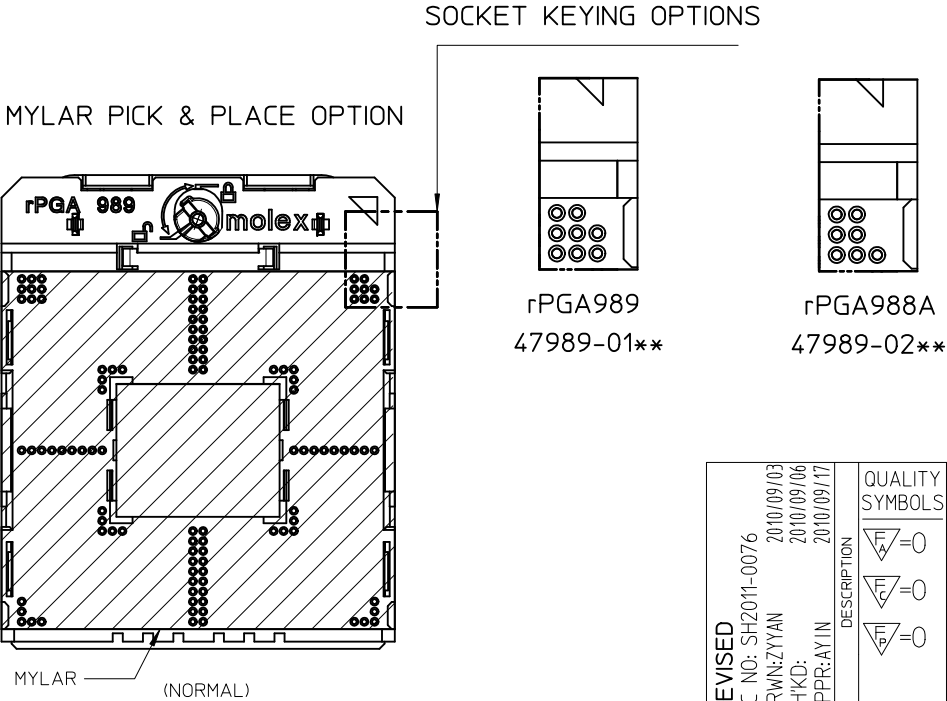
PART NUMBER	PICK UP TYPE		PACKAGE TYPE		PRODUCT SPEC.
	MYLAR	CAP	T&R	HARD TRAY	
47989-0110	◆			◆	PS-47989-002
47989-0120	◆		◆		
47989-0130		◆		◆	
47989-0140		◆	◆		
47989-0210	◆			◆	
47989-0220	◆		◆		
47989-0230		◆		◆	
47989-0240		◆	◆		

PART NO. OF 10u" MIN. GOLD PLATING- TABLE 2

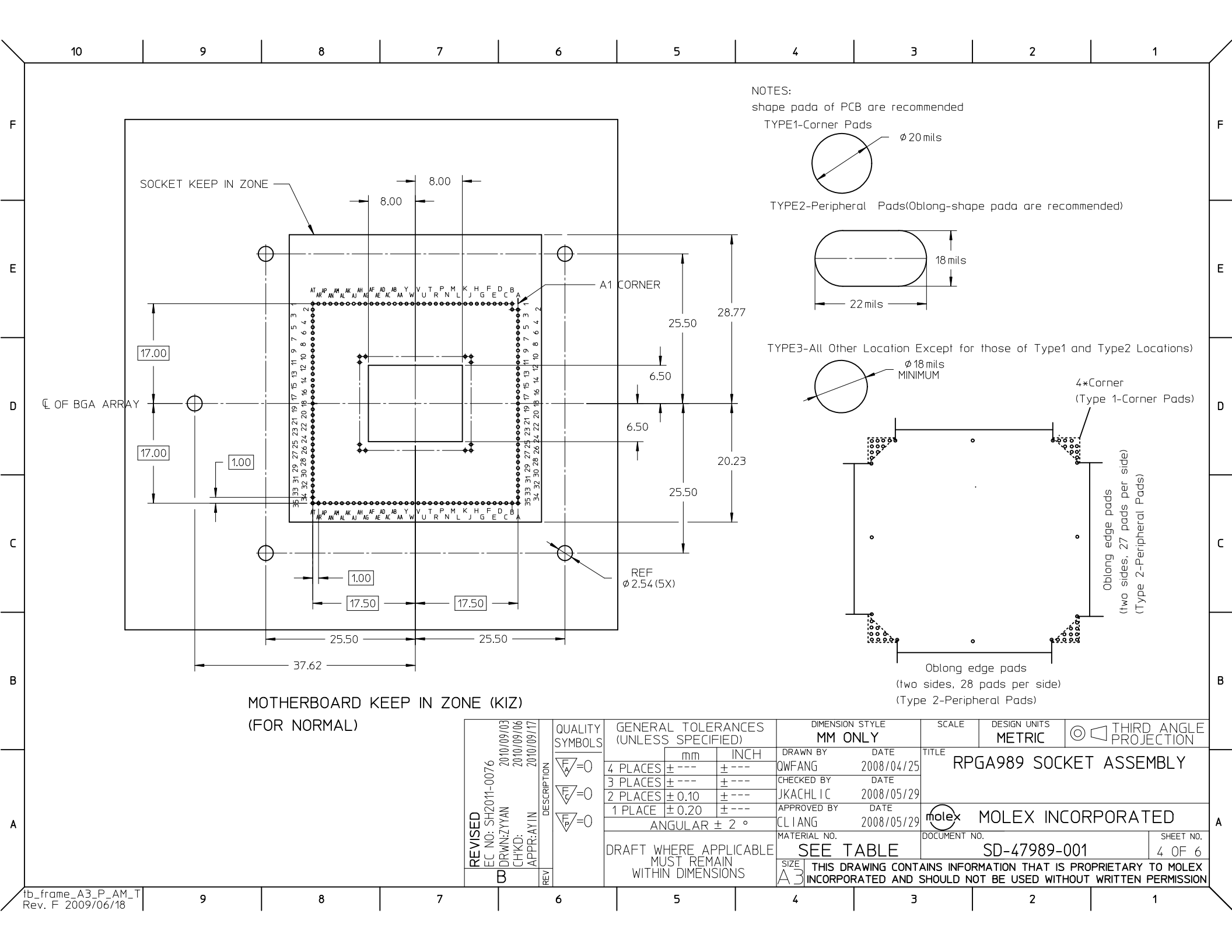
PART NUMBER	PICK UP TYPE		PACKAGE TYPE		PRODUCT SPEC.
	MYLAR	CAP	T&R	HARD TRAY	
47989-0111	◆			◆	PS-47989-003
47989-0121	◆		◆		
47989-0131		◆		◆	
47989-0141		◆	◆		
47989-0211	◆			◆	
47989-0221	◆		◆		
47989-0231		◆		◆	
47989-0241		◆	◆		

PART NO. OF 15u" MIN. GOLD PLATING- TABLE 3

PART NUMBER	PICK UP TYPE		PACKAGE TYPE		PRODUCT SPEC.
	MYLAR	CAP	T&R	HARD TRAY	
47989-0112	◆			◆	PS-47989-001
47989-0122	◆		◆		
47989-0132		◆		◆	
47989-0142		◆	◆		
47989-0212	◆			◆	
47989-0222	◆		◆		
47989-0232		◆		◆	
47989-0242		◆	◆		



REVISED EC NO: SH2011-0076 DRWN:ZYAN CHKD: APPR:AYIN	DESCRIPTION 2010/09/03 2010/09/06 2010/09/17	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	
					DRAWN BY QWFANG	DATE 2008/04/25	TITLE RPGA989 SOCKET ASSEMBLY			
					CHECKED BY JKACHLIC	DATE 2008/05/29				
					APPROVED BY CL IANG	DATE 2008/05/29				 MOLEX INCORPORATED
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE					
B	REV		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							



NOTES:

shape pada of PCB are recommended

TYPE1-Corner Pads

$\phi 20\text{mils}$

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

18 mils

22 mils

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

$\phi 18\text{mils}$ MINIMUM

4*Corner (Type 1-Corner Pads)

Oblong edge pads (two sides, 27 pads per side) (Type 2-Peripheral Pads)

Oblong edge pads (two sides, 28 pads per side) (Type 2-Peripheral Pads)

MOTHERBOARD KEEP IN ZONE (KIZ)
(FOR NORMAL)

REVISED EC NO: SH2011-0076 DRWN:ZYAN CHKD: APPR:AYIN B	DESCRIPTION REV	QUALITY SYMBOLS 	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY	DATE	TITLE RPGA989 SOCKET ASSEMBLY			
			4 PLACES	± ---	± ---	QWFANG	2008/04/25				
			3 PLACES	± ---	± ---	CHECKED BY	DATE	MOLEX INCORPORATED			
			2 PLACES	± 0.10	± ---	JKACHLIC	2008/05/29				
			1 PLACE	± 0.20	± ---	APPROVED BY	DATE				
			ANGULAR ± 2 °		CL IANG	2008/05/29	DOCUMENT NO. SD-47989-001				SHEET NO. 4 OF 6
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE									
		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

PART NO. OF GF PLATING- TABLE 1

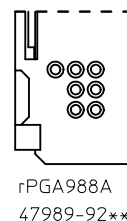
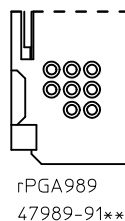
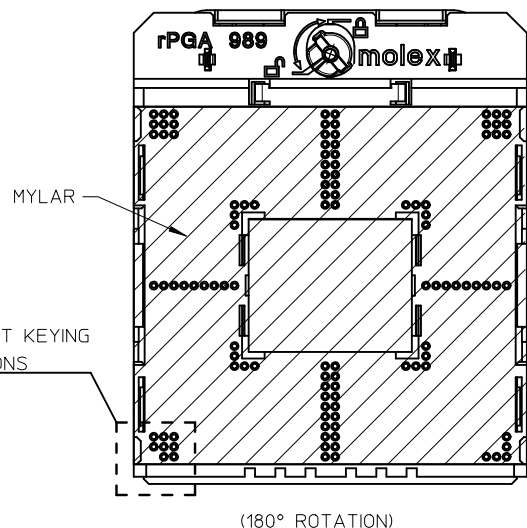
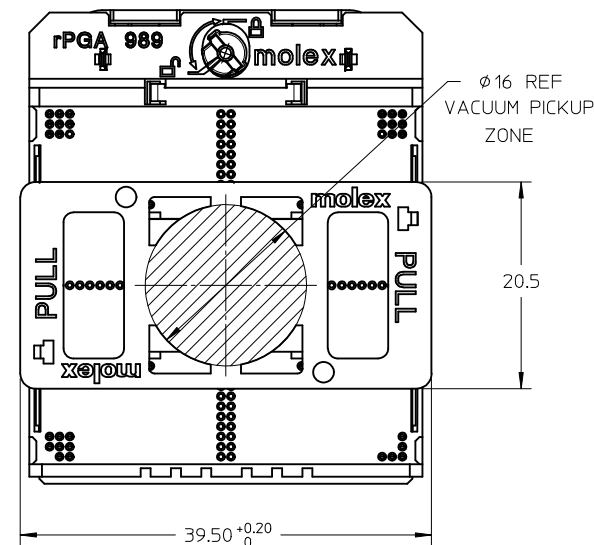
PART NUMBER	PICK UP TYPE		PACKAGE TYPE		PRODUCT SPEC.
	MYLAR	CAP	T&R	HARD TRAY	
47989-9110	◆			◆	PS-47989-002
47989-9120	◆		◆		
47989-9130		◆		◆	
47989-9140		◆	◆		
47989-9210	◆			◆	
47989-9220	◆		◆		
47989-9230		◆		◆	
47989-9240		◆	◆		

PART NO. OF 10u" MIN. GOLD PLATING- TABLE 2

PART NUMBER	PICK UP TYPE		PACKAGE TYPE		PRODUCT SPEC.
	MYLAR	CAP	T&R	HARD TRAY	
47989-9111	◆			◆	PS-47989-003
47989-9121	◆		◆		
47989-9131		◆		◆	
47989-9141		◆	◆		
47989-9211	◆			◆	
47989-9221	◆		◆		
47989-9231		◆		◆	
47989-9241		◆	◆		

PART NO. OF 15u" MIN. GOLD PLATING- TABLE 3

PART NUMBER	PICK UP TYPE		PACKAGE TYPE		PRODUCT SPEC.
	MYLAR	CAP	T&R	HARD TRAY	
47989-9112	◆			◆	PS-47989-001
47989-9122	◆		◆		
47989-9132		◆		◆	
47989-9142		◆	◆		
47989-9212	◆			◆	
47989-9222	◆		◆		
47989-9232		◆		◆	
47989-9242		◆	◆		



REVISED EC NO: SH2011-0076 DRWN:ZYAN CHKD: APPR:AYIN	2010/09/03 2010/09/06 2010/09/17	DESCRIPTION	QUALITY SYMBOLS 	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				5 OF 6		
B		REV		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

