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Part Number: [0878681401](#)
Status: **Active**
Description: 1.60mm (.063") Pitch Board-to-Board Panel Detachable, PCB Receptacle, Right Angle, 14 Circuits, Gold (Au) Plating, Lubrication, Tray Packaging, Lead-free

Documents:
[3D Model](#) [Product Specification PS-87868-004 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

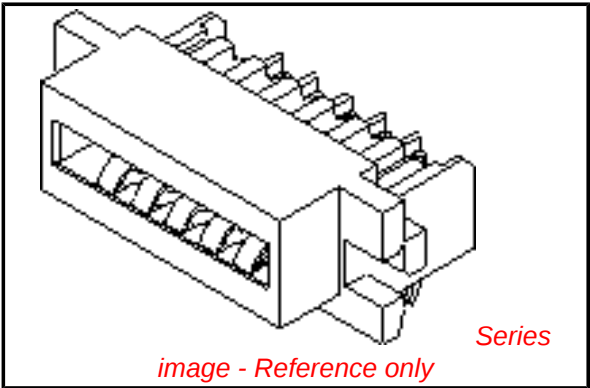
General
Product Family PCB Receptacles
Series [87868](#)
Application Board-to-Board
Comments Panel Detachable
Product Name N/A

Physical
Circuits (Loaded) 14
Durability (mating cycles max) 10,000
Glow-Wire Compliant No
Lock to Mating Part None
Material - Metal Copper Alloy
Material - Plating Mating Gold
Number of Rows 2
Orientation Right Angle
PC Tail Length (in) 0.138 In
PC Tail Length (mm) 3.50 mm
PCB Locator Yes
PCB Retention Yes
PCB Thickness Recommended (in) 0.062 In
PCB Thickness Recommended (mm) 1.60 mm
Packaging Type Tray
Pitch - Mating Interface (in) 0.063 In
Pitch - Mating Interface (mm) 1.60 mm
Polarized to Mating Part No
Polarized to PCB Yes
Stackable No
Surface Mount Compatible (SMC) Yes
Temperature Range - Operating -30°C to +85°C
Termination Interface: Style Through Hole

Electrical
Current - Maximum per Contact 1A
Voltage - Maximum 125V

Material Info

Reference - Drawing Numbers
Product Specification PS-87868-004
Sales Drawing SD-87868-007



EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free
Status
Not Reviewed

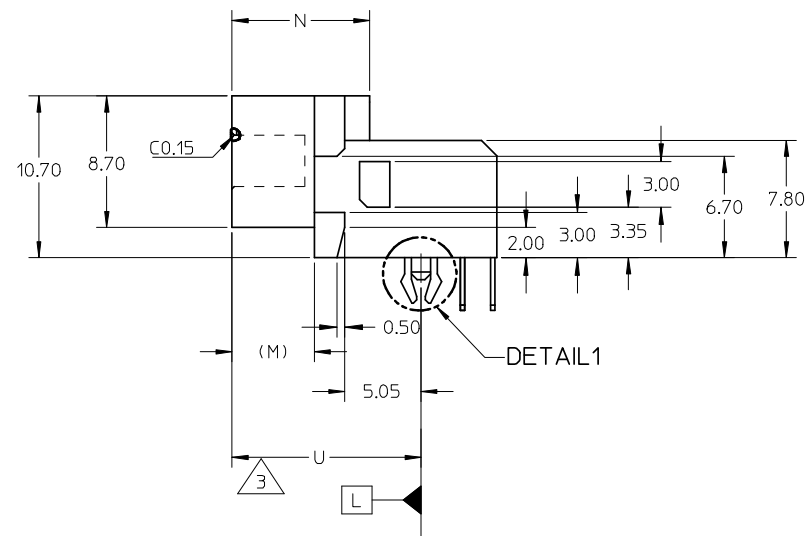
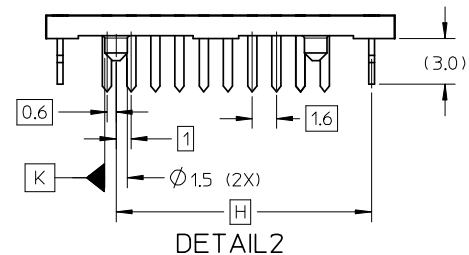
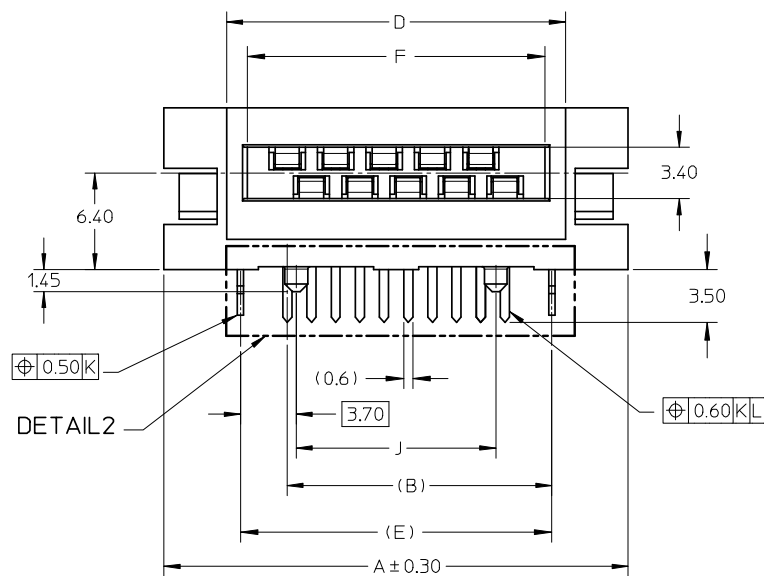
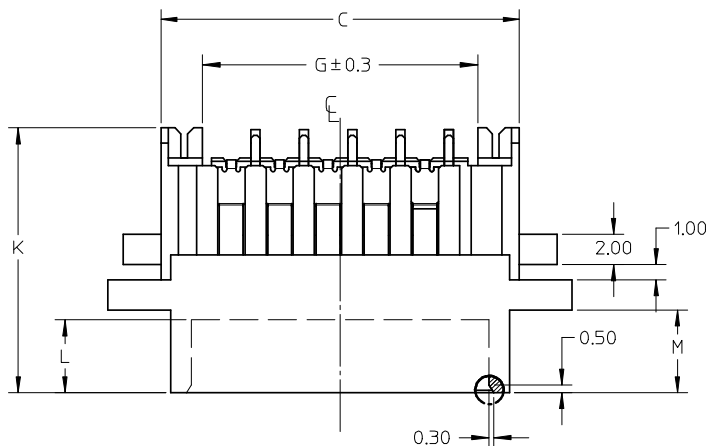
China RoHS



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
[87868Series](#)

Mates With
[87869 PCB Header](#)



INITIAL RELEASE
EC NO: S2008-0879
DRWN:CGOH
CHKD:KHLIM
APPR:BOKOK

2008/04/17
2008/04/18
2008/04/18

QUALITY SYMBOLS
▽=0
C=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 1 °		

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

SCALE
NTS

DESIGN UNITS
METRIC

THIRD ANGLE PROJECTION

TITLE
1.6 PANEL
DETACHABLE TYPE
RECEPTACLE CONNECTOR

MOLEX INCORPORATED

DOCUMENT NO.
SD-87868-007

SHEET NO.
1 OF 3

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	
PART NUMBER	DIM'A'	DIM'B'	DIM'C'	DIM'D'	DIM'E'	DIM'F'	DIM'G'	DIM'H'	DIM'J'	DIM'K'	DIM'L'	DIM'M'	DIM'N'	DIM'P'	DIM'Q'	DIM'R'	DIM'S'	DIM'T'	DIM'U'	NUMBER OF CONTACTS	LUBRICATION	
87868-1001	30.70	14.40	23.70	22.40	20.60	19.70	18.20	16.90	13.20	17.50	4.80	5.45	9.10	2.65	1.80	4.80	15.30	7.05	12.50	10	YES	
87868-1401	37.10	20.80	30.10	28.80	27.00	26.10	24.60	23.30	19.60	17.65	4.95	5.60	9.25	2.50	1.65	4.95	15.45	7.20	12.65	14		
87868-1601	40.30	24.00	33.30	32.00	30.20	29.30	27.80	26.50	22.80	17.65	4.95	5.60	9.25	2.50	1.65	4.95	15.45	7.20	12.65	16		

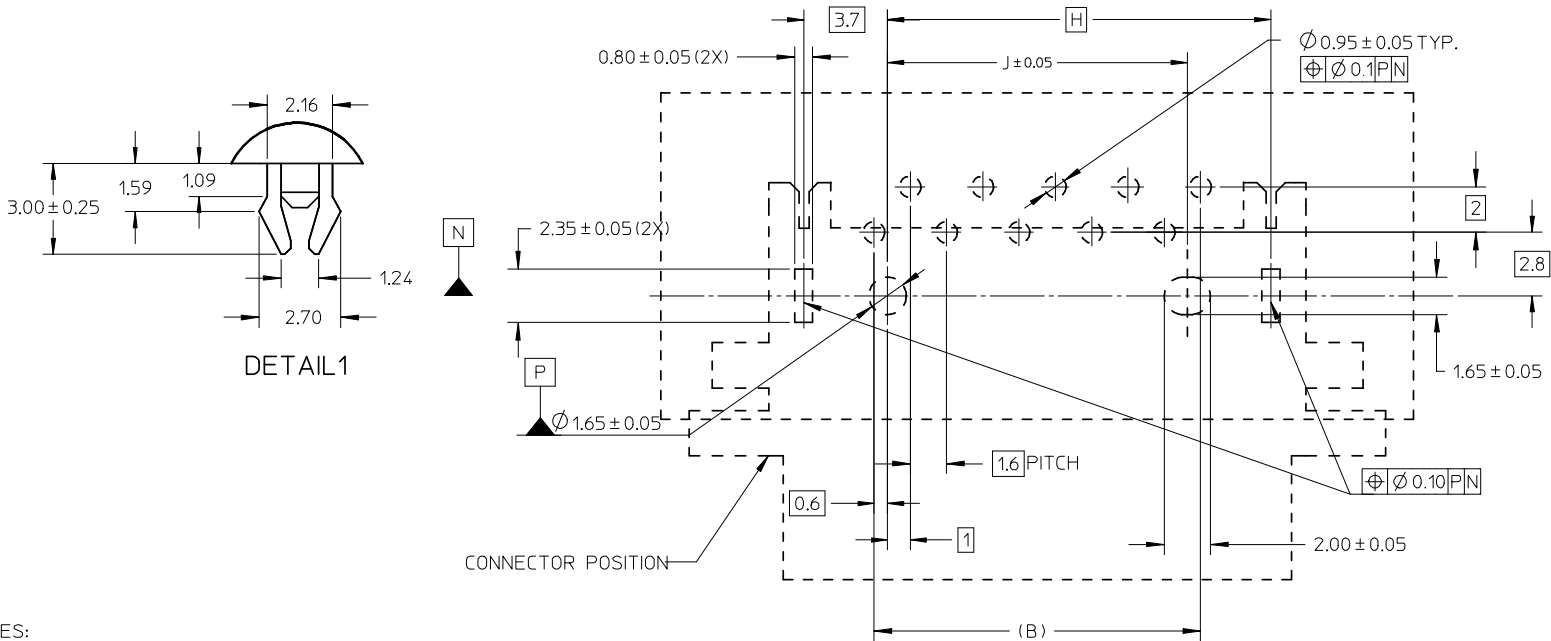
E

D

C

B

A



NOTES:

- MATE WITH 87869.
- MATERIAL:

HOUSING : GLASS FILLED NYLON, UL94V-0
(FOR WAVE SOLDERING ONLY)

TERMINALS : COPPER ALLOY

BASIC PLANE IS THE CENTRE OF 2 BOSSES(Ø1.5)

4. PLATING :

GOLD ON CONTACT AREA : 0.54µm MINIMUM

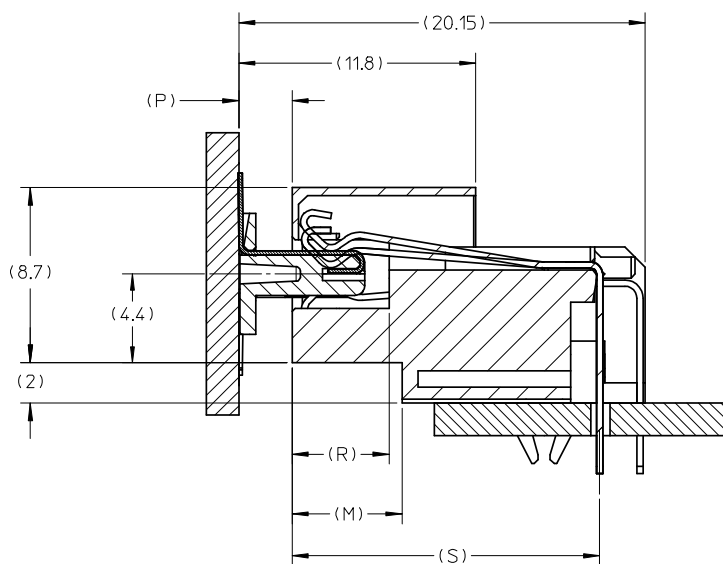
TIN ON SOLDERTAIL AREA : 24µm MINIMUM

OVERALL NICKEL UNDERPLATING : 1.54µm MINIMUM

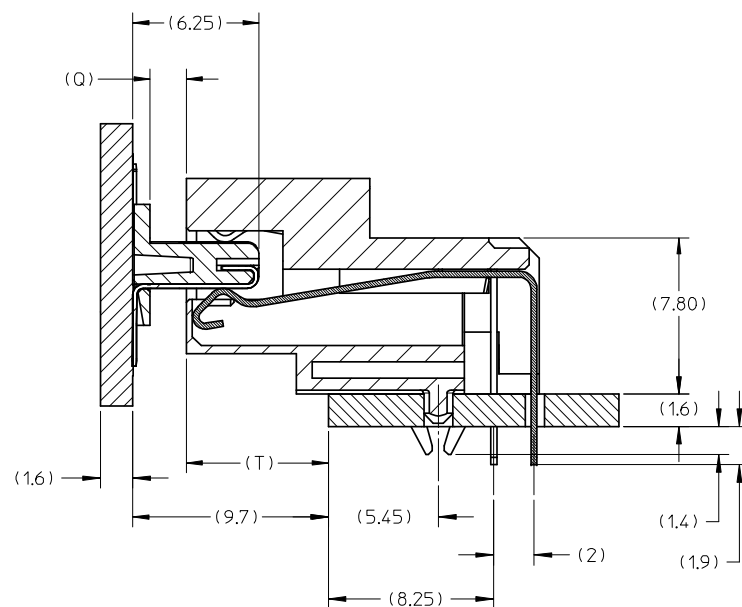
- REFER TO PS-87868-004 FOR PERFORMANCE SPECIFICATIONS.
- CONTACT MOLEX FOR AVAILABILITY OF PRODUCT OPTIONS.
- PART SHALL BE PACKED IN TRAYS.

RECOMMENDED P.C.BOARD
THICKNESS 1.6MM

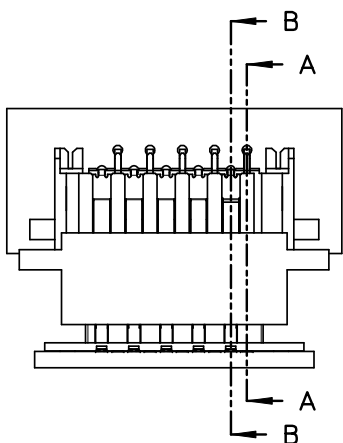
INITIAL RELEASE EC NO: S2008-0879 DRWN:CGOH CHKD:KHLIM APPR:BOKOK REV A			2008/04/17 2008/04/18 2008/04/18		DESCRIPTION	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		mm INCH		DRAWN BY DATE CGOH 2008/03/26			TITLE 1.6 PANEL DETACHABLE TYPE RECEPTACLE CONNECTOR MOLEX MOLEX INCORPORATED							
		4 PLACES ± --- ± ---		CHECKED BY DATE KHLIM 2008/04/17										
		3 PLACES ± --- ± ---		APPROVED BY DATE BOKOK 2008/04/18										
		2 PLACES ± 0.20 ± ---												
		1 PLACE ± 0.25 ± ---												
		ANGULAR ± 1 °		MATERIAL NO.			DOCUMENT NO.		SHEET NO.					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE			SD-87868-007		2 OF 3					
				SIZE A3			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							



SECTION B-B



SECTION A-A



NOTES:

1. THE ALLOWABLE TOLERANCE RANGE OFF MISALIGNMENT WHEN MATED
 - 1) PITCH DIRECTION: ± 1
 - 2) A RIGHT PITCH DIRECTION: ± 0.5
 - 3) MATING DIRECTION: ± 0.7

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					mm	INCH	DRAWN BY CGOH	DATE 2008/03/26	TITLE 1.6 PANEL DETACHABLE TYPE RECEPTACLE CONNECTOR			
							CHECKED BY KHLIM	DATE 2008/04/17				
							APPROVED BY BOKOK	DATE 2008/04/18	MOLEX INCORPORATED			
A		REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87868-007				SHEET NO. 3 OF 3	
					SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					