

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0878305021](#)
Status: **Active**
Overview: [milligrd](#)
Description: 2.00mm (.079") Pitch Milli-Grid™ Straddle Mount Header, 50 Circuits, 0.38µm (15µ") Gold (Au) Selective Plating, Tray Packaging, Lead-free

Documents:

[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Drawing \(PDF\)](#)

General

Product Family	PCB Headers
Series	87830
Application	Board-to-Board
Overview	milligrd
Product Name	Milli-Grid™

Physical

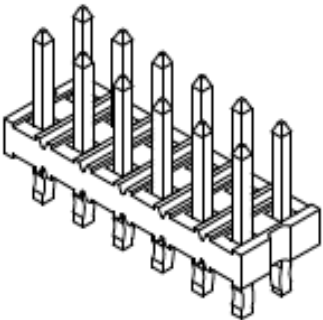
Breakaway	Yes
Circuits (Loaded)	50
Circuits (maximum)	50
First Mate / Last Break	No
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	None
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Number of Rows	2
Orientation	Vertical
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.039 In
PCB Thickness Recommended (mm)	1.00 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.079 In
Pitch - Mating Interface (mm)	2.00 mm
Pitch - Term. Interface (in)	0.079 In
Pitch - Term. Interface (mm)	2.00 mm
Plating min: Mating (µin)	15
Plating min: Mating (µm)	0.38
Plating min: Termination (µin)	75
Plating min: Termination (µm)	1.90
Polarized to Mating Part	No
Polarized to PCB	No
Shrouded	No
Stackable	Yes
Temperature Range - Operating	-55°C to +105°C
Termination Interface: Style	Straddle Mount

Electrical

Current - Maximum per Contact	2A
Voltage - Maximum	125V

Solder Process Data

Duration at Max. Process Temperature (seconds)	14
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Series

image - Reference only

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
[87830Series](#)

Mates With

[79107](#) Board-to-Board Top Entry Through
Hole Receptacle. [79108](#) Board-to-Board
FFC/FPC Top Entry Through Hole
Receptacle. [79109](#) Board-to-Board Top/
Bottom Entry SMT Receptacle. [87381](#)
Board-to-Board Top Entry SMT Receptacle

Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	265

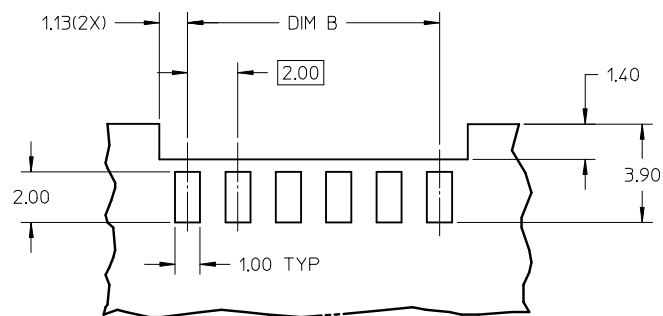
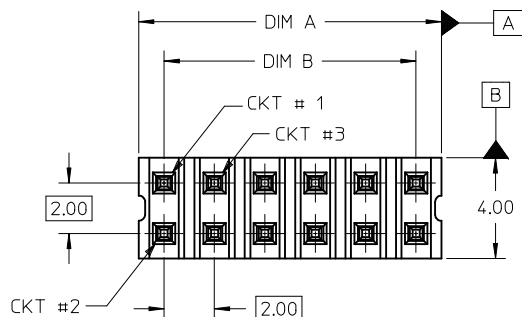
Material Info

Reference - Drawing Numbers

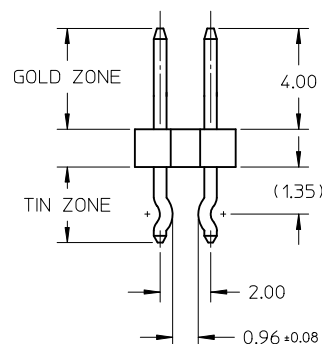
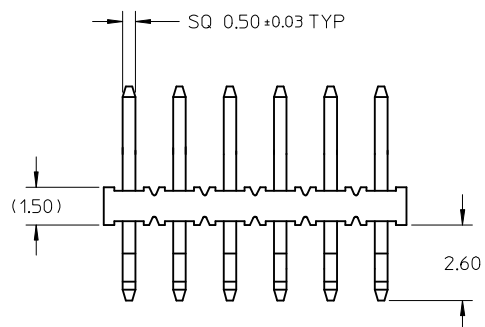
Sales Drawing	SD-87830-003
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This document was generated on 05/26/2010

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RECOMMENDED PCB PATTERN
(PATTERN TYPICAL BOTH SIDES)



PART NUMBER LEGEND

87830 - ** 2 1
 CKT SIZE
 CONFIGURATION

PART NUMBER	CKT SIZE	DIM A	DIM B
87830-04**	4	3.90	2.00
87830-06**	6	5.90	4.00
87830-08**	8	7.90	6.00
87830-10**	10	9.90	8.00
87830-12**	12	11.90	10.00
87830-14**	14	13.90	12.00
87830-16**	16	15.90	14.00
87830-18**	18	17.90	16.00
87830-20**	20	19.90	18.00
87830-22**	22	21.90	20.00
87830-24**	24	23.90	22.00
87830-26**	26	25.90	24.00
87830-28**	28	27.90	26.00
87830-30**	30	29.90	28.00
87830-32**	32	31.90	30.00
87830-34**	34	33.90	32.00
87830-36**	36	35.90	34.00
87830-38**	38	37.90	36.00
87830-40**	40	39.90	38.00
87830-42**	42	41.90	40.00
87830-44**	44	43.90	42.00
87830-46**	46	45.90	44.00
87830-48**	48	47.90	46.00
87830-50**	50	49.90	48.00

NOTES:

- DRAWING SHOWS 12 CIRCUITS FOR ILLUSTRATION.
- PIN PUSHOUT FORCE : 2 LBS. MIN. BEFORE SOLDERING.
- WAFER TO BE FLAT WITHIN 0.003 mm/mm
- PIN SOLDERABILITY PER MOLEX SPEC. ES-152
- THIS PRODUCT IS INTENDED FOR EDGE OF BOARD MOUNTING
RECOMMENDED BOARD THICKNESS IS 1.02 ± 0.05 -0.13
- PRODUCT SPECIFICATION: PS-87761-100 APPLIES.

REVISE DIM EC NO: S2010-0047 DRWN:SKANG CHKD:ATSEE APPR:MLONG 2009/07/27 2009/07/28 2009/07/28	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 RSHAN	DATE 2003/11/07	TITLE MILLI-GRID HEADER EDGE MOUNT				
			4 PLACES	± ---	± ---	CHECKED BY KCLING	DATE 2003/11/26					
			3 PLACES	± ---	± ---	APPROVED BY SKTOH	DATE 2003/11/26	MOLEX INCORPORATED				
			2 PLACES	± 0.20	± ---	MATERIAL NO. SEE TABLE						
			1 PLACE	± ---	± ---	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						
ANGULAR ± 3 °												
A1	REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3							