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Part Number: [0877590850](#)
Status: **Active**
Overview: [milligrid](#)
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Surface Mount, Vertical, 8 Circuits, 0.38µm (15µ") Gold (Au) Selective Plating, with Press-fit Plastic Pegs, Lead-free

Documents:

[3D Model](#) [Product Specification PS-87761-100 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

UL E29179

General

Product Family PCB Headers
Series [87759](#)
Application Board-to-Board
Overview [milligrid](#)
Product Name Milli-Grid™

Physical

Breakaway Yes
Circuits (Loaded) 8
Circuits (maximum) 8
Color - Resin Black
Durability (mating cycles max) 100
First Mate / Last Break No
Flammability 94V-0
Glow-Wire Compliant No
Guide to Mating Part No
Keying to Mating Part None
Lock to Mating Part None
Mated Height (in) 0.150 In
Mated Height (mm) 3.80 mm
Material - Metal Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin High Temperature Thermoplastic
Number of Rows 2
Orientation Vertical
PCB Locator No
PCB Retention None
Packaging Type Tube
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
Polarized to Mating Part No
Polarized to PCB No
Shrouded No
Stackable Yes
Temperature Range - Operating -55°C to +105°C
Termination Interface: Style Surface Mount

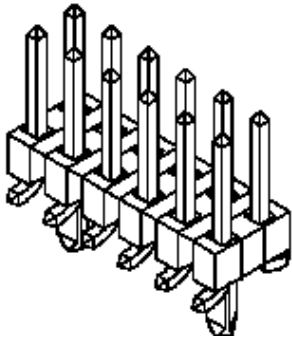


image - Reference only **Series**

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
[87759Series](#)

Mates With
[79107](#) Milli-Grid™ Receptacle, Vertical,
Through Hole. [79108](#) Milli-Grid™ Flex-to-
Board, Vertical Receptacle. Milli-Grid™
Receptacle, Surface Mount. [79109](#). [87381](#)

Electrical

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

Solder Process Data

Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260

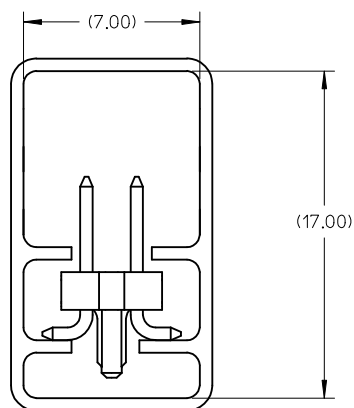
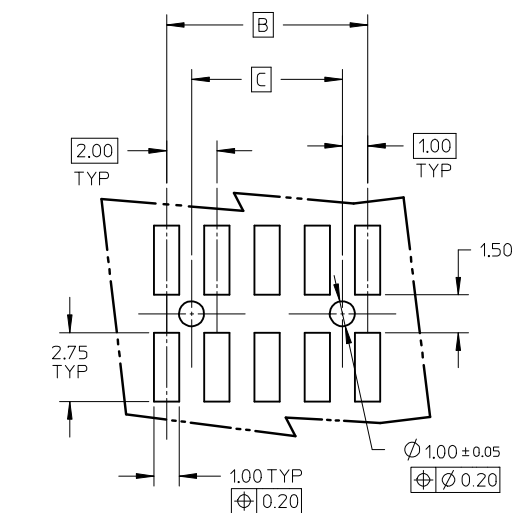
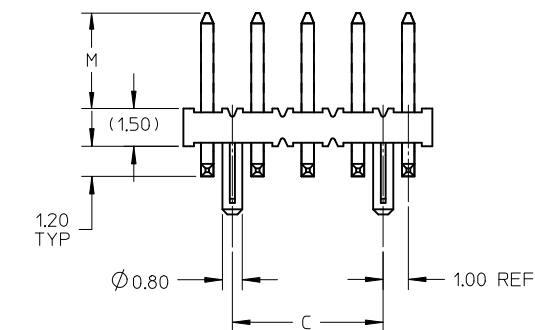
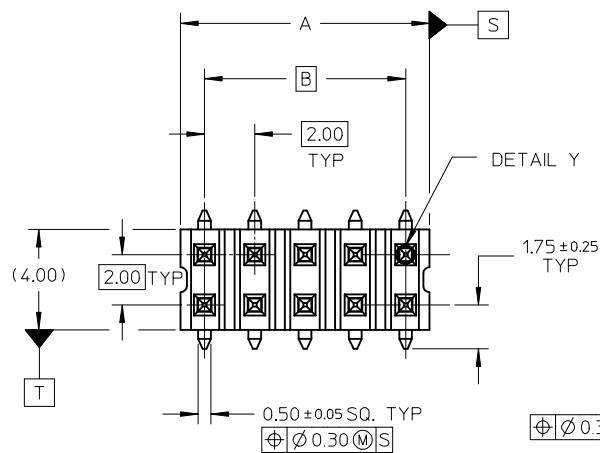
Material Info

Reference - Drawing Numbers

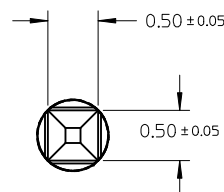
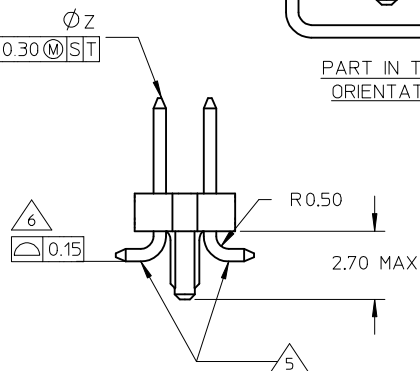
Packaging Specification	PK-89990-475
Product Specification	PS-87761-100
Sales Drawing	SD-87759-113

This document was generated on 05/25/2010

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PART IN TUBE
ORIENTATION



DETAIL Y

NOTE:

1. MATERIAL:

HSG - HIGH TEMPERATURE THERMOPLASTIC,
UL 94V-0, COLOUR BLACK

PIN - 0.50 SQ PHOSPHOR BRONZE

2. PLATING:

**50 / **52 - 0.38um MIN GOLD PLATE AT CONTACT AREA,
TIN PLATE AT SOLDER AREA,
BOTH OVER NICKEL UNDERPLATE

**51 - 0.76um MIN GOLD PLATE AT CONTACT AREA,
TIN PLATE AT SOLDER AREA,
BOTH OVER NICKEL UNDERPLATE

(** - REPRESENTS DIFFERENT CKT SIZE, SEE TABLE AT SHT 2)

3. PIN PUSHOUT FORCE: 1KG MIN IN EITHER DIRECTION

4. PRODUCT SPEC PS-87761-100 APPLIES.

5 BEND DEPRESSION IS ACCEPTABLE SO LONG AS IT DOES NOT
AFFECT THE OVERALL COPLANARITY OF TAIL.

6 COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL
ON A FLAT SURFACE.

7. FOR ILLUSTRATION PURPOSES, 10CKT IS SHOWN

8. TUBE LENGTH IS 560MM REF STANDARD.

9. RECOMMENDED PCB BOARD THK IS 1.60 ± 0.10 MM.

PDR#S-001876-00-00 EC NO: S2009-0182 2008/09/24 DRWN:SKANG CHKD:ATSEE 2008/09/24 APPR:MLONG 2008/09/25				QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		mm	INCH				DRAWN BY KSEE		DATE 2003/12/24		TITLE CUSTOM HEADER MGRID, 2MM DUAL ROW HDR WITH PEG, SMT				
4 PLACES		± ---	± ---				CHECKED BY KCLING		DATE 2004/01/12						
3 PLACES		± ---	± ---				APPROVED BY SKTOH		DATE 2004/01/12						
2 PLACES		± 0.2	± ---				MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87759-113		MOLEX INCORPORATED				
1 PLACE		± ---	± ---				SIZE A3		SHEET NO. 1 OF 2						
ANGULAR ± 3 °				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		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	PART NUMBER WITHOUT CAP IN TUBE	CKT SIZE	A	B	C	M										F																																																																									
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	87759-0852	08	7.90	6.00	4.00	9.60																																																																																			
	87759-1050/1051	10	9.90	8.00	6.00	3.80																																																																																			
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	87759-2250/2251	22	21.90	20.00	18.00	3.80																																																																																			
	87759-2450/2451	24	23.90	22.00	20.00	3.80																																																																																			
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	87759-3050/3051	30	29.90	28.00	26.00	3.80																																																																																			
	87759-3250/3251	32	31.90	30.00	28.00	3.80																																																																																			
	87759-3450/3451	34	33.90	32.00	30.00	3.80																																																																																			
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	87759-4450/4451	44	43.90	42.00	40.00	3.80																																																																																			
	87759-4650/4651	46	45.90	44.00	42.00	3.80																																																																																			
	87759-4850/4851	48	47.90	46.00	44.00	3.80																																																																																			
	87759-5050/5051	50	49.90	48.00	46.00	3.80																																																																																			
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DRWN:SKANG

CHKD:ATSEE

APPR:MLONG

2008/09/24

2008/09/24

2008/09/25

QUALITY SYMBOLS

▽=0

⊕=0

DESCRIPTION

REV

B1

GENERAL TOLERANCES (UNLESS SPECIFIED)

mm

INCH

4 PLACES ± --- ± ---

3 PLACES ± --- ± ---

2 PLACES ± 0.2 ± ---

1 PLACE ± --- ± ---

ANGULAR ± 3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE

MM ONLY

DRAWN BY

DATE

CHECKED BY

DATE

APPROVED BY

DATE

SKT0H

2004/01/12

MATERIAL NO.

SEE TABLE

SIZE

A3

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SCALE

NTS

DESIGN UNITS

METRIC

THIRD ANGLE PROJECTION

TITLE

CUSTOM HEADER

MGRID, 2MM DUAL ROW

HDR WITH PEG, SMT

MOLEX INCORPORATED

DOCUMENT NO.

SD-87759-113

SHEET NO.

2 OF 2