

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0877593450](#)
Status: **Active**
Overview: milligrd
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Surface Mount, Vertical, 34 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

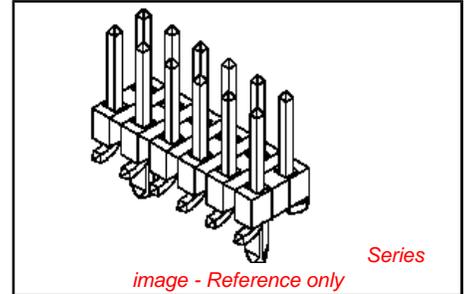
UL E29179

General

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

Physical

Breakaway Yes
 Circuits (Loaded) 34
 Circuits (maximum) 34
 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 Yes
 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



<p>EU RoHS ELV and RoHS Compliant REACH SVHC Contains SVHC: No Halogen-Free Status Not Reviewed</p>	<p>China RoHS</p>
--	--------------------------

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

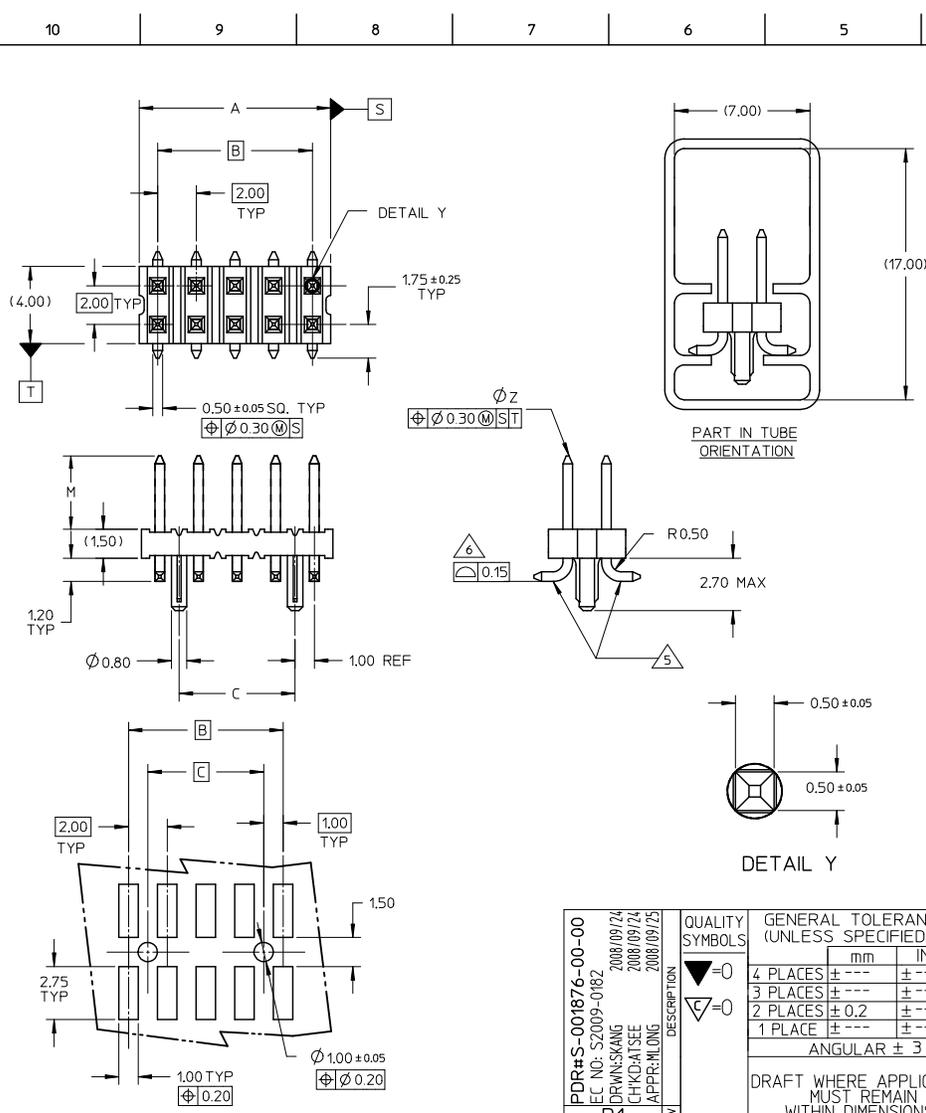
Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260

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

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



- NOTE:**
- MATERIAL:
HSG - HIGH TEMPERATURE THERMOPLASTIC,
UL 94V-0, COLOUR BLACK
PIN - 0.50 SQ PHOSPHOR BRONZE
 - 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)
 - PIN PUSHOUT FORCE: 1KG MIN IN EITHER DIRECTION
 - PRODUCT SPEC PS-87761-100 APPLIES.
 - BEND DEPRESSION IS ACCEPTABLE SO LONG AS IT DOES NOT AFFECT THE OVERALL COPLANARITY OF TAIL.
 - COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL ON A FLAT SURFACE.
 - FOR ILLUSTRATION PURPOSES, 10CKT IS SHOWN
 - TUBE LENGTH IS 560MM REF STANDARD.
 - RECOMMENDED PCB BOARD THK IS 1.60±0.10 MM.

PDR#S-001876-00-00 ELC NO: SZ2009-0182 DRAWN BY: DRWNSKANG 2008/09/24 CHECKED BY: CHYKATSEE 2008/09/24 APPROVED BY: APPRMLONG 2008/09/25 B1 REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION																				
	$\nabla=0$ $\nabla=0$	<table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>±---</td> <td>±---</td> </tr> <tr> <td>3 PLACES</td> <td>±---</td> <td>±---</td> </tr> <tr> <td>2 PLACES</td> <td>±0.2</td> <td>±---</td> </tr> <tr> <td>1 PLACE</td> <td>±---</td> <td>±---</td> </tr> </table>		mm	INCH	4 PLACES	±---	±---	3 PLACES	±---	±---	2 PLACES	±0.2	±---	1 PLACE	±---	±---	MM ONLY	NTS	METRIC						
		mm	INCH																							
	4 PLACES	±---	±---																							
3 PLACES	±---	±---																								
2 PLACES	±0.2	±---																								
1 PLACE	±---	±---																								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	<table border="1"> <tr> <td>DRAWN BY</td> <td>DATE</td> <td>TITLE</td> </tr> <tr> <td>KSEE</td> <td>2003/12/24</td> <td>CUSTOM HEADER MGRID, 2MM DUAL ROW HDR WITH PEG, SMT</td> </tr> <tr> <td>CHECKED BY</td> <td>DATE</td> <td></td> </tr> <tr> <td>KCLING</td> <td>2004/01/12</td> <td></td> </tr> <tr> <td>APPROVED BY</td> <td>DATE</td> <td></td> </tr> <tr> <td>SKTOH</td> <td>2004/01/12</td> <td></td> </tr> </table>	DRAWN BY	DATE	TITLE	KSEE	2003/12/24	CUSTOM HEADER MGRID, 2MM DUAL ROW HDR WITH PEG, SMT	CHECKED BY	DATE		KCLING	2004/01/12		APPROVED BY	DATE		SKTOH	2004/01/12		<table border="1"> <tr> <td>MATERIAL NO.</td> <td>DOCUMENT NO.</td> <td>SHEET NO.</td> </tr> <tr> <td>SEE TABLE</td> <td>SD-87759-113</td> <td>1 OF 2</td> </tr> </table>	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	SEE TABLE	SD-87759-113	1 OF 2
DRAWN BY	DATE	TITLE																								
KSEE	2003/12/24	CUSTOM HEADER MGRID, 2MM DUAL ROW HDR WITH PEG, SMT																								
CHECKED BY	DATE																									
KCLING	2004/01/12																									
APPROVED BY	DATE																									
SKTOH	2004/01/12																									
MATERIAL NO.	DOCUMENT NO.	SHEET NO.																								
SEE TABLE	SD-87759-113	1 OF 2																								
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
	PART NUMBER WITHOUT CAP IN TUBE	CKT SIZE	A	B	C	M						
F	87759-0850/0851	08	7.90	6.00	4.00	3.80						
	87759-0852	08	7.90	6.00	4.00	9.60						
	87759-1050/1051	10	9.90	8.00	6.00	3.80						
	87759-1250/1251	12	11.90	10.00	8.00	3.80						
	87759-1450/1451	14	13.90	12.00	10.00	3.80						
E	87759-1650/1651	16	15.90	14.00	12.00	3.80						
	87759-1850/1851	18	17.90	16.00	14.00	3.80						
	87759-2050/2051	20	19.90	18.00	16.00	3.80						
	87759-2250/2251	22	21.90	20.00	18.00	3.80						
	87759-2450/2451	24	23.90	22.00	20.00	3.80						
	87759-2650/2651	26	25.90	24.00	22.00	3.80						
D	87759-2850/2851	28	27.90	26.00	24.00	3.80						
	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						
	87759-3650/3651	36	35.90	34.00	32.00	3.80						
	87759-3850/3851	38	37.90	36.00	34.00	3.80						
	87759-4050/4051	40	39.90	38.00	36.00	3.80						
C	87759-4250/4251	42	41.90	40.00	38.00	3.80						
	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						

PDR#S-001876-00-00 EEC NO: S2009-0182 B1 DRWNSKANG 2008/09/24 CHYKATSEE 2008/09/24 APPR:MLONG 2008/09/25	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION															
	$\nabla = 0$ $\nabla = 0$	<table border="1"> <tr><th></th><th>mm</th><th>INCH</th></tr> <tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr> <tr><td>3 PLACES</td><td>± ---</td><td>± ---</td></tr> <tr><td>2 PLACES</td><td>± 0.2</td><td>± ---</td></tr> <tr><td>1 PLACE</td><td>± ---</td><td>± ---</td></tr> </table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.2	± ---	1 PLACE	± ---	± ---	MM ONLY	NTS	METRIC	
		mm	INCH																		
	4 PLACES	± ---	± ---																		
3 PLACES	± ---	± ---																			
2 PLACES	± 0.2	± ---																			
1 PLACE	± ---	± ---																			
DESCRIPTION	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	<table border="1"> <tr><th>DRAWN BY</th><th>DATE</th></tr> <tr><td>KSEE</td><td>2003/12/24</td></tr> <tr><th>CHECKED BY</th><th>DATE</th></tr> <tr><td>KCLING</td><td>2004/01/12</td></tr> <tr><th>APPROVED BY</th><th>DATE</th></tr> <tr><td>SKTOH</td><td>2004/01/12</td></tr> </table>	DRAWN BY	DATE	KSEE	2003/12/24	CHECKED BY	DATE	KCLING	2004/01/12	APPROVED BY	DATE	SKTOH	2004/01/12	TITLE	CUSTOM HEADER MGRID, 2MM DUAL ROW HDR WITH PEG, SMT					
DRAWN BY	DATE																				
KSEE	2003/12/24																				
CHECKED BY	DATE																				
KCLING	2004/01/12																				
APPROVED BY	DATE																				
SKTOH	2004/01/12																				
REV			SEE TABLE	MOLEX INCORPORATED																	
				MATERIAL NO.	DOCUMENT NO.	SHEET NO.															
					SD-87759-113	2 OF 2															

tb_frame_A3_P_AM.T
Rev. E 2006/04/15