

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0877580416

Status:

Active

Overview:

milligrid

Description:

2.00mm (.079") Pitch Milli-Grid™ Header, Through Hole, Vertical, 4 Circuits, 0.38μm (15μ") Gold (Au) Selective Plating, Pocket Tray Packaging, Lead-free

Documents:

3D Model

Drawing (PDF)

Product Specification PS-87761-100 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

UL

E29179

General

Product Family

Series

Application

Overview

Product Name

PCB Headers

87758

Board-to-Board

milligrid

Milli-Grid™

Physical

Breakaway

Circuits (Loaded)

Circuits (maximum)

Color - Resin

First Mate / Last Break

Flammability

Glow-Wire Compliant

Guide to Mating Part

Keying to Mating Part

Lock to Mating Part

Mated Height (in)

Mated Height (mm)

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Rows

Orientation

PC Tail Length (in)

PC Tail Length (mm)

PCB Locator

PCB Retention

PCB Thickness Recommended (in)

PCB Thickness Recommended (mm)

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Pitch - Term. Interface (in)

Pitch - Term. Interface (mm)

Plating min: Mating (μin)

Plating min: Mating (μm)

Polarized to Mating Part

Polarized to PCB

Shrouded

Stackable

Yes

4

4

Black

No

94V-0

No

No

None

None

0.157 In

4.00 mm

Phosphor Bronze

Gold

Tin

Nylon

2

Vertical

0.102 In

2.60 mm

No

None

0.063 In

1.60 mm

Tray

0.079 In

2.00 mm

0.079 In

2.00 mm

15

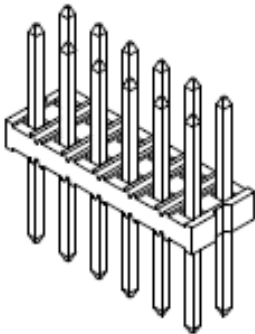
0.38

No

No

No

No



Series

image - Reference only

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Not Halogen-Free

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

87758Series

Mates With

79107 Milli-Grid™ Receptacle, Vertical, Through Hole. 79108 Milli-Grid™ Flex-to-Board, Vertical Receptacle. Milli-Grid™ Receptacle, Surface Mount. 79109. 87381

Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55°C to +105°C
Termination Interface: Style	Through Hole

Electrical

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

Solder Process Data

Duration at Max. Process Temperature (seconds)	3
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	250

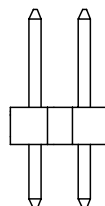
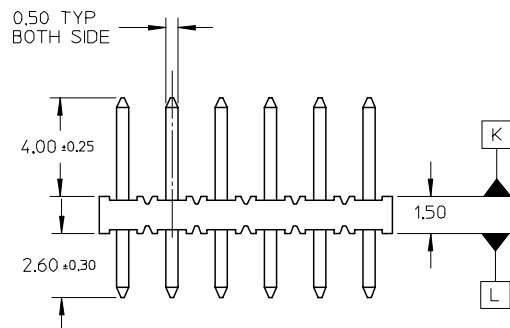
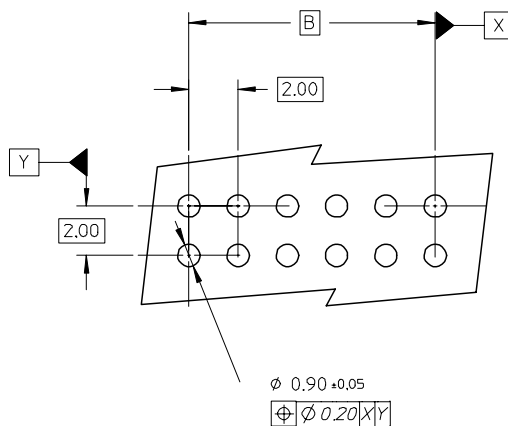
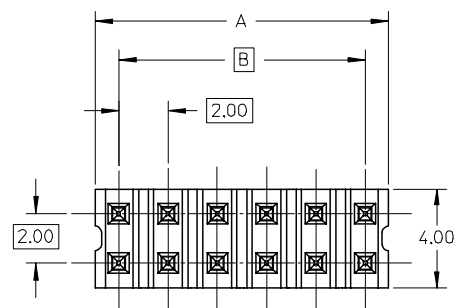
Material Info

Reference - Drawing Numbers

Product Specification	PS-87761-100
Sales Drawing	SD-87758-107

This document was generated on 05/25/2010

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$\phi 0.71 \pm 0.07$
 $\phi 0.30 \times M$



VIEW P

$\phi 0.71 \pm 0.07$
 $\phi 0.30 \times M$



VIEW Q

LEGEND

87758- * * * *

CKT SIZE (SEE SHT 2 TABLE) PLATING (SEE NOTE 2)

NOTES:

1. MATERIAL:

HOUSING: 30% G.F. NYLON 46, 94V-0, COLOR: BLACK
 PIN: 0.50mm SQ. PHOSPHOR BRONZE 510

2. PLATING:

**16 - 0.38um MIN GOLD IN CONTACT AREA.
 TIN IN SOLDER AREA, BOTH OVER
 NICKEL OVERALL.
 **17 - 0.76um MIN GOLD IN CONTACT AREA,
 TIN IN SOLDER AREA, BOTH OVER
 NICKEL OVERALL.
 **18 - 2.54um MIN TIN OVER
 NICKEL OVERALL.

3. 12 CKT USED FOR ILLUSTRATION ONLY

4. PACKED IN POCKET TRAY

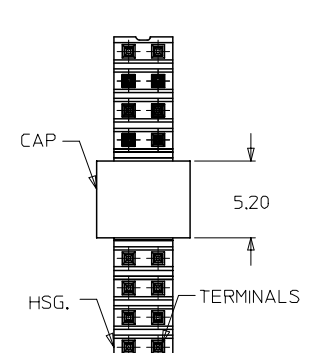
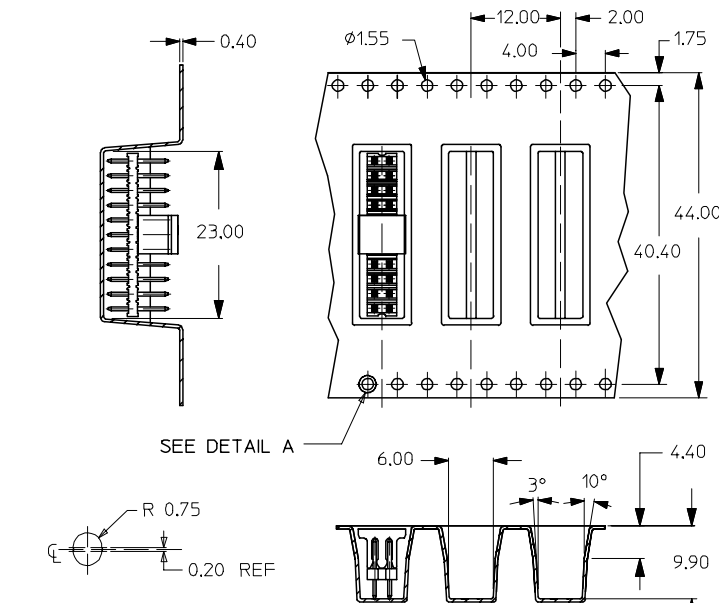
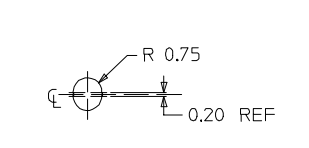
5. PIN PUSHOUT FORCE: 1KG MIN IN EITHER DIRECTION

6. CKT 4 AND 6 IS CUT FROM CKT 8 AND 12 RESPECTIVELY.
 CKT 2 ARE CUT FROM ANY LARGER CKT SIZE.ROUGH EDGES
 ARE EXPECTED ALONG THE CUTTING EDGES.

7. PRODUCT SPEC PS-87761-100 APPLIES.

8. RECOMMENDED PCB THICKNESS IS 1.60±0.10

EC NO: S2005-0715		2005/05/16		2005/05/18		2005/05/19		DESCRIPTION		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE MM ONLY				SCALE NTS		DESIGN UNITS METRIC		 THIRD ANGLE PROJECTION	
DRAWN:KCHO		2005/05/16		2005/05/18		2005/05/19		CHECKED:PTLM		▽=0		4 PLACES		± ---		± ---		DRAWN BY KSEE		DATE 2003/10/30		TITLE SALES DRAWING 2MM DUAL ROW SINGLE WAFER, VERTICAL T/H HDR		 MOLEX INCORPORATED	
APPR:SCLOW		2005/05/16		2005/05/18		2005/05/19		▽=0		3 PLACES		± ---		± ---		CHECKED BY KCLING		DATE 2004/01/05							
										2 PLACES		± 0.20		± ---		APPROVED BY SKTOH		DATE 2004/01/05							
										1 PLACE		± ---		± ---											
														ANGULAR ± 3 °				MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
																		SEE TABLE		SD-87758-107		1 OF 2			
A2		REV																SIZE A3							

	10	9	8	7	6	5	4	3	2	1												
F	PART NUMBER	CKT SIZE	A	B	<table><tr><td>CKT SIZE</td><td>PART NO. WITH CAP IN TUBE</td><td>PART NO. WITH CAP IN TAPE/REEL</td><td>PLATING TYPE</td></tr><tr><td>8</td><td>87758-0814</td><td>87758-0815</td><td>**16</td></tr><tr><td>22</td><td>87758-5126</td><td>87758-5111</td><td>MOLEX INC.</td></tr></table>						CKT SIZE	PART NO. WITH CAP IN TUBE	PART NO. WITH CAP IN TAPE/REEL	PLATING TYPE	8	87758-0814	87758-0815	**16	22	87758-5126	87758-5111	MOLEX INC.
	CKT SIZE	PART NO. WITH CAP IN TUBE	PART NO. WITH CAP IN TAPE/REEL	PLATING TYPE																		
	8	87758-0814	87758-0815	**16																		
	22	87758-5126	87758-5111	MOLEX INC.																		
	87758-02** 	2	NA	NA	WITH CAP IN TUBE (22 CKT SHOWN FOR MOLEX INC.)  WITH CAP IN TAPE/REEL (22 CKT SHOWN FOR MOLEX INC.)  DETAIL A 																	
87758-04** 	4	NA	2.00																			
87758-06** 	6	NA	4.00																			
87758-08**	8	7.90	6.00																			
E	87758-10**	10	9.90	8.00																		
	87758-12**	12	11.90	10.00																		
	87758-14**	14	13.90	12.00																		
	87758-16**	16	15.90	14.00																		
	87758-18**	18	17.90	16.00																		
D	87758-20**	20	19.90	18.00																		
	87758-22**	22	21.90	20.00																		
	87758-24**	24	23.90	22.00																		
	87758-26**	26	25.90	24.00																		
	87758-28**	28	27.90	26.00																		
C	87758-30**	30	29.90	28.00																		
	87758-32**	32	31.90	30.00																		
	87758-34**	34	33.90	32.00																		
	87758-36**	36	35.90	34.00																		
	87758-38**	38	37.90	36.00																		
B	87758-40**	40	39.90	38.00																		
	87758-42**	42	41.90	40.00																		
	87758-44**	44	43.90	42.00																		
	87758-46**	46	45.90	44.00																		
	87758-48**	48	47.90	46.00																		
A	87758-50**	50	49.90	48.00																		

REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION		
			mm	INCH	MM ONLY		NTS	METRIC			
					DRAWN BY DATE						
					TITLED						
A2	EC NO: S2005-0715 DRWN:KCHO CHKD:PTLM APPR:SCLOW	2005/05/16 2005/05/18 2005/05/19	4 PLACES	± ---	± ---	KSEE	2003/10/30	SALES DRAWING 2MM DUAL ROW SINGLE WAFER, VERTICAL T/H HDR MOLEX INCORPORATED			
			3 PLACES	± ---	± ---	CHECKED BY DATE					
			2 PLACES	± 0.20	± ---	KCL ING	2004/01/05				
			1 PLACE	± ---	± ---	APPROVED BY DATE					
			ANGULAR ± 3 °		SKTOH		2004/01/05				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87758-107		SHEET NO. 2 OF 2		
			SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

tb_frame_A3_P_AM_T
Rev. D 2004/06/28

9	8	7	6	5	4	3	2	1
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