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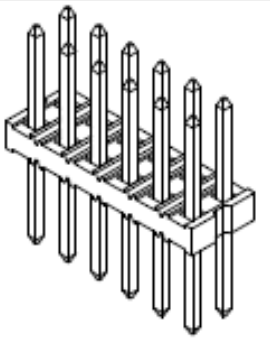
Part Number: 0877583016
Status: Active
Overview: milligrid
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Through Hole, Vertical, 30 Circuits, 0.38µm (15µ") Gold (Au) Selective Plating, Pocket Tray Packaging, Lead-free



Series image - Reference only

Documents:
Drawing (PDF)
RoHS Certificate of Compliance (PDF)
Product Specification PS-87761-100 (PDF)

Agency Certification

UL	E29179

General

Product Family	PCB Headers
Series	87758
Application	Board-to-Board
Overview	milligrid
Product Name	Milli-Grid™

Physical

Breakaway	Yes
Circuits (Loaded)	30
Circuits (maximum)	30
Color - Resin	Black
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)	0.157 In
Mated Height (mm)	4.00 mm
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	Nylon
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.102 In
PC Tail Length (mm)	2.60 mm
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.063 In
PCB Thickness Recommended (mm)	1.60 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
Polarized to Mating Part	No
Polarized to PCB	No
Shrouded	No
Stackable	No

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

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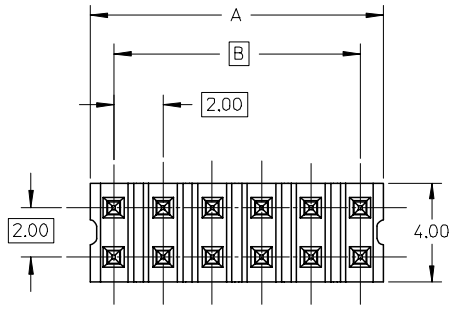
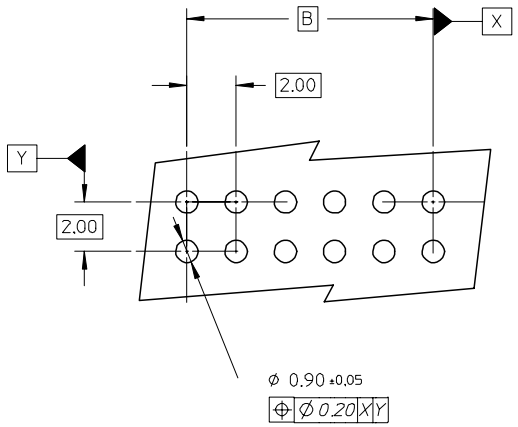
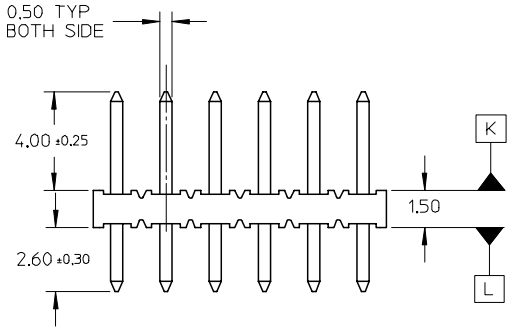
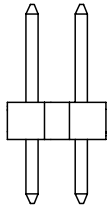








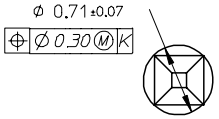
LEGEND

87758- * * * *

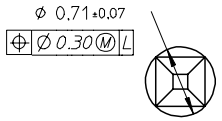
CKT SIZE (SEE SHT 2 TABLE) — PLATING (SEE NOTE 2)

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



VIEW P



VIEW Q

EC NO: S2005-0715 2005/05/16
DRWN:KCHO 2005/05/18
CH'KD:PTLIM 2005/05/19
APPR:SCLOW
DESCRIPTION
REV

A2

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± ---	± ---

ANGULAR ± 3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY	KSEE
DATE	2003/10/30
CHECKED BY	KCLING
DATE	2004/01/05
APPROVED BY	SKTOH
DATE	2004/01/05

TITLE: SALES DRAWING 2MM DUAL ROW SINGLE WAFER, VERTICAL T/H HDR

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87758-107
SHEET NO.: 1 OF 2

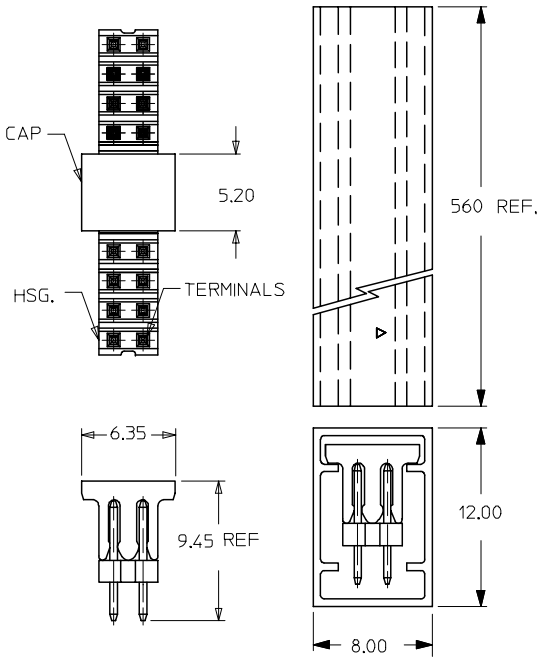
SIZE A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

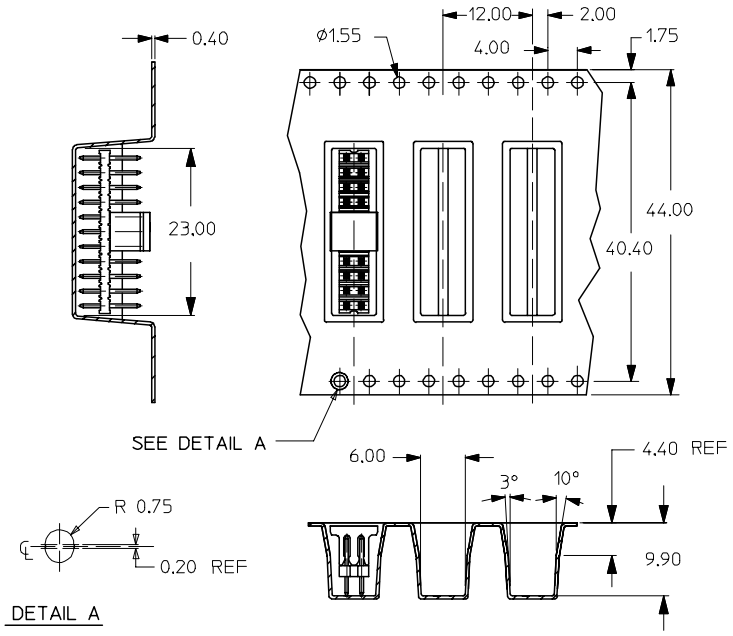
PART NUMBER	CKT SIZE	A	B
87758-02** ⚠6	2	NA	NA
87758-04** ⚠6	4	NA	2.00
87758-06** ⚠6	6	NA	4.00
87758-08**	8	7.90	6.00
87758-10**	10	9.90	8.00
87758-12**	12	11.90	10.00
87758-14**	14	13.90	12.00
87758-16**	16	15.90	14.00
87758-18**	18	17.90	16.00
87758-20**	20	19.90	18.00
87758-22**	22	21.90	20.00
87758-24**	24	23.90	22.00
87758-26**	26	25.90	24.00
87758-28**	28	27.90	26.00
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
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
87758-50**	50	49.90	48.00

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.

WITH CAP IN TUBE
(22 CKT SHOWN
FOR MOLEX INC.)



WITH CAP IN TAPE/REEL
(22 CKT SHOWN
FOR MOLEX INC.)



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DRWN:KCHO 2005/05/18
CH'KD:PTLIM 2005/05/19
APPR:SCLOW
DESCRIPTION

A2

REV

QUALITY SYMBOLS
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▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

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

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: KSEE DATE: 2003/10/30
CHECKED BY: KCLING DATE: 2004/01/05
APPROVED BY: SKTOH DATE: 2004/01/05

TITLE: SALES DRAWING
2MM DUAL ROW SINGLE
WAFER, VERTICAL T/H HDR

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87758-107
SHEET NO.: 2 OF 2

SIZE A3

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