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Part Number:

0877582016

Status:

Active

Overview:

milligrid

Description:

2.00mm (.079") Pitch Milli-Grid™ Header, Through Hole, Vertical, 20 Circuits, 0.38μm (15μ") Gold (Au) Selective Plating, Pocket Tray Packaging, Lead-free

Documents:

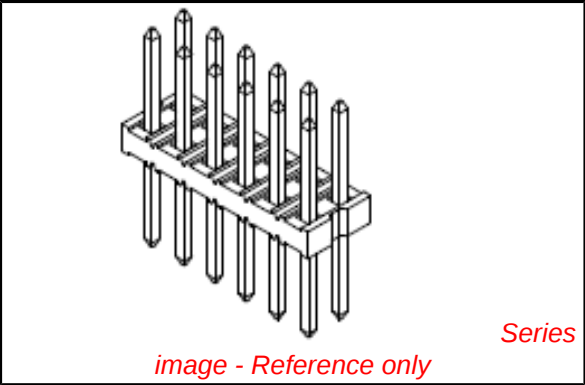
3D Model

Drawing (PDF)

Product Specification PS-87761-100 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification	
UL	E29179
General	
Product Family	PCB Headers
Series	87758
Application	Board-to-Board
Overview	milligrid
Product Name	Milli-Grid™
Physical	
Breakaway	Yes
Circuits (Loaded)	20
Circuits (maximum)	20
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

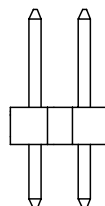
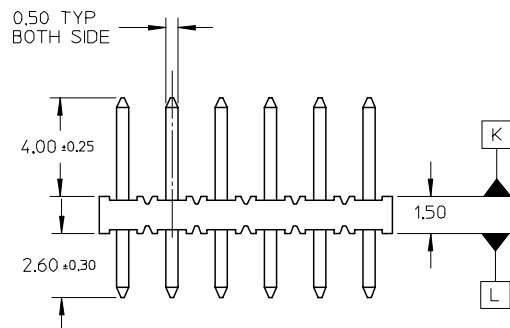
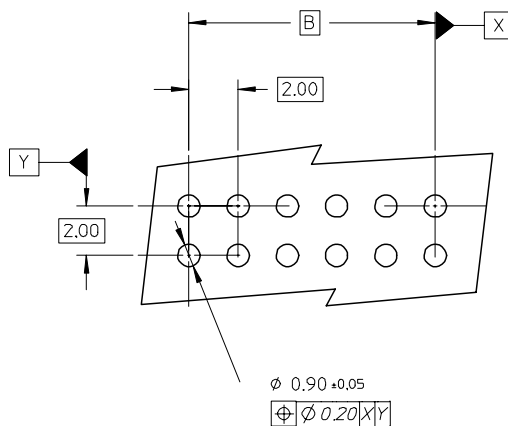
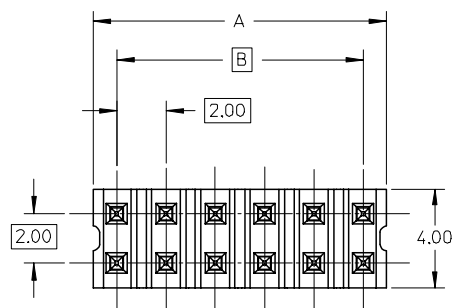
Material Info

Reference - Drawing Numbers

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

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

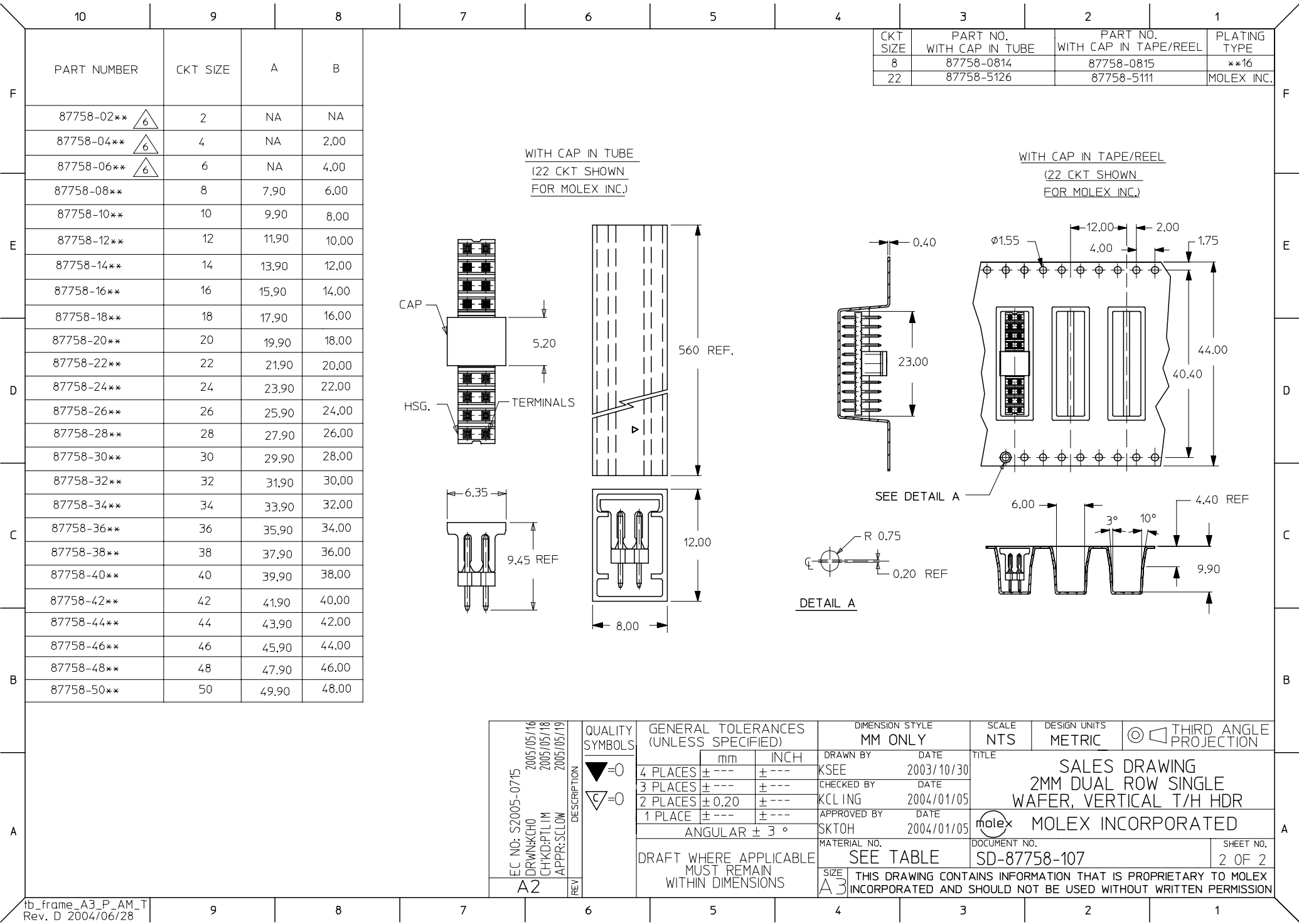
5. PIN PUSHOUT FORCE: 1KG MIN IN EITHER DIRECTION

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.

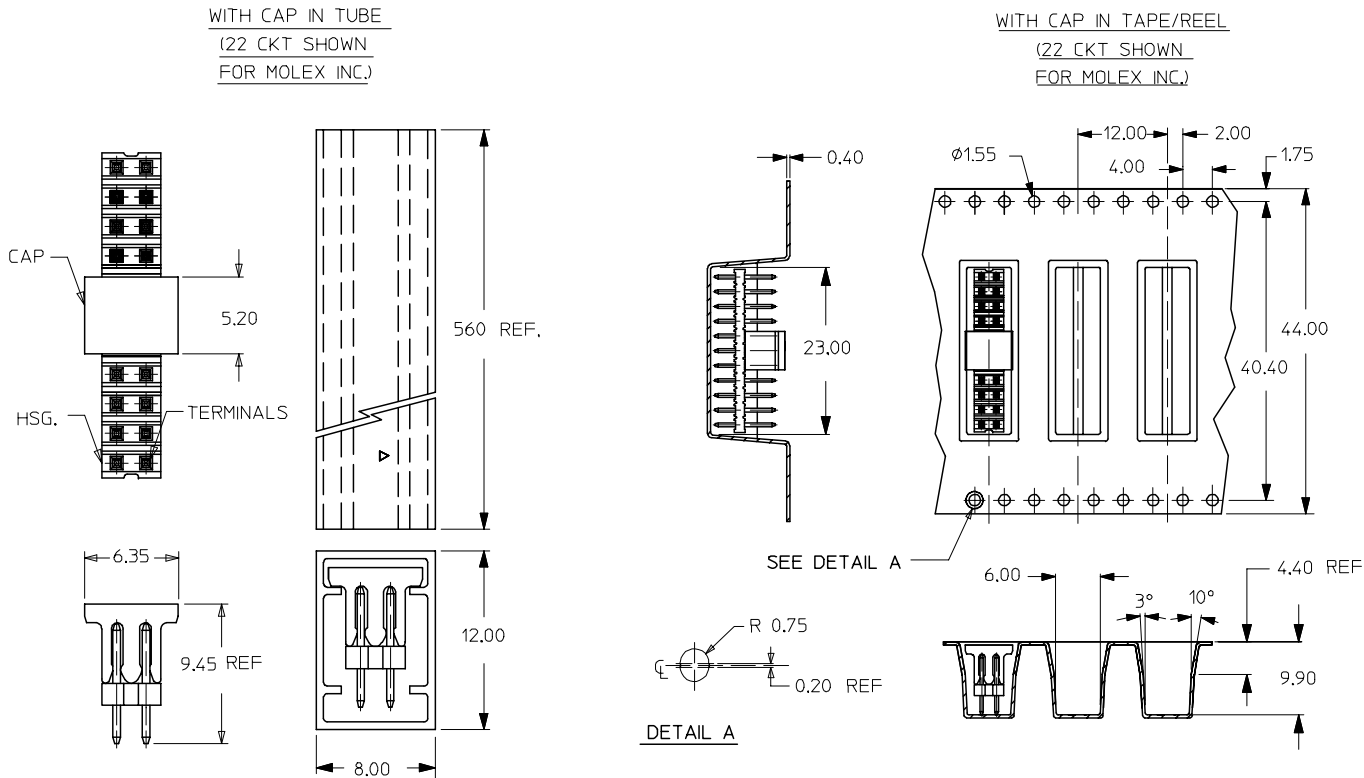
7. PRODUCT SPEC PS-87761-100 APPLIES.

8. RECOMMENDED PCB THICKNESS IS 1.60±0.10

EC NO: S2005-0715 DRAWN:KCHO CHKD:PTLM APPR:SCLOW A2	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
			 =0  =0	mm INCH	DRAWN BY KSEE	DATE 2003/10/30	TITLE SALES DRAWING 2MM DUAL ROW SINGLE WAFER, VERTICAL T/H HDR			
				4 PLACES ± --- ± ---	CHECKED BY KCL ING	DATE 2004/01/05				
				3 PLACES ± --- ± ---	APPROVED BY SKTOH	DATE 2004/01/05	 MOLEX INCORPORATED			
				2 PLACES ± 0.20 ± ---	MATERIAL NO. SEE TABLE			DOCUMENT NO. SD-87758-107	SHEET NO. 1 OF 2	
				1 PLACE ± --- ± ---	SIZE A3			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
			ANGULAR ± 3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					



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.



EC NO: S2005-0715 2005/05/16 DRWN:KCH0 CHKD:PTLIM 2005/05/18 APPR:SCLOW 2005/05/19	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY	DATE	TITLE SALES DRAWING 2MM DUAL ROW SINGLE WAFER, VERTICAL T/H HDR			
			4 PLACES	± ---	± ---	KSEE	2003/10/30				
			3 PLACES	± ---	± ---	CHECKED BY	DATE	MOLEX INCORPORATED			
			2 PLACES	± 0.20	± ---	KCL ING	2004/01/05				
			1 PLACE	± ---	± ---	APPROVED BY	DATE	MATERIAL NO. SEE TABLE SD-87758-107			
ANGULAR ± 3 °		SKTOH	2004/01/05	DOCUMENT NO. SD-87758-107		SHEET NO. 2 OF 2					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							