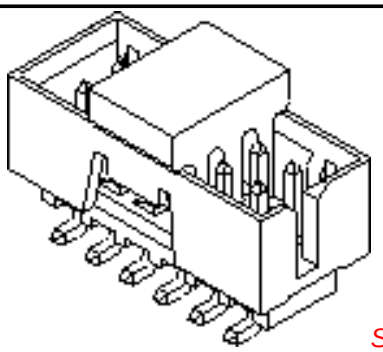
This document was generated on 05/25/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0878320842
Status: Active
Overview: milligrid
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Surface Mount, Vertical, Shrouded, 8 Circuits, 0.76µm (30µ") Gold (Au) Plating, with Locking Window, Pick-and-Place Cap, PCB Locator, Embossed Tape on Reel, Lead- free



Series image - Reference only

Documents:
Drawing (PDF)
RoHS Certificate of Compliance (PDF)
Product Specification PS-87831-027 (PDF)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	87832
Application	Wire-to-Board
Comments	With Cap|Contact Molex for application in automotive industry
Overview	milligrid
Product Name	Milli-Grid™

Physical

Breakaway	No
Circuits (Loaded)	8
Circuits (maximum)	8
Color - Resin	Black
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	Nylon
Number of Rows	2
Orientation	Vertical
PCB Locator	Yes
PCB Retention	None
Packaging Type	Embossed Tape on Reel
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)	30
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	75
Plating min: Termination (µm)	1.88
Polarized to Mating Part	Polarizing Ribs
Polarized to PCB	Yes
Robotic Placement	Pick and Place Cap
Shrouded	Fully

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free Status
Not Reviewed

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
87832Series

Mates With
50394 Wire-to-Board Terminals. 51110 Wire-to-Board Crimp Housing. 87568 Wire-to-Board IDT Housings. 79107 Board-to-Board Top Entry Through Hole Receptacle. 79108 Board-to-Board FFC/FPC Top Entry Through Hole Receptacle. 79109 Board

Stackable	No
Temperature Range - Operating	-55°C to +105°C
Termination Interface: Style	Surface Mount

Electrical

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

Material Info

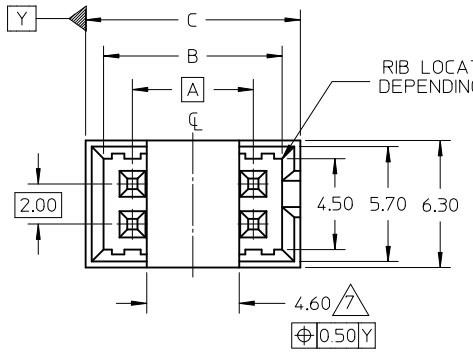
Reference - Drawing Numbers

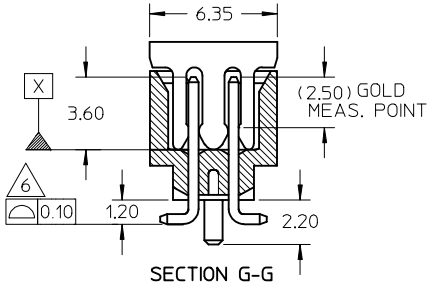
Product Specification	PS-87831-027
Sales Drawing	SD-87832-013

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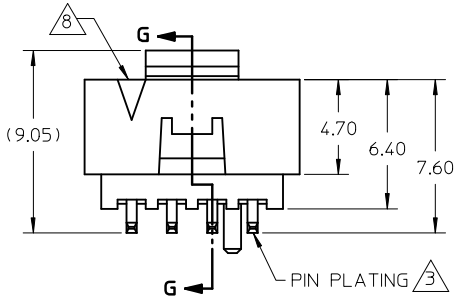
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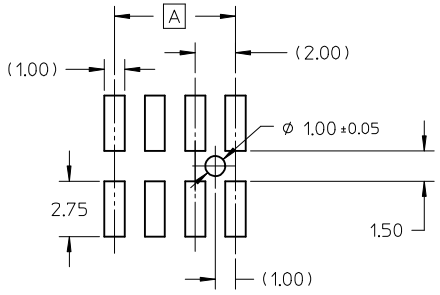
PEG OPTION	P/N WITH CAP IN TAPE & REEL		P/N WITH CAP IN TUBE		CKT SIZE	DIMENSION			
	15µin Gold	30µin Gold	15µin Gold	30µin Gold		A	B	C	D
NO	87832-0440	87832-0442	87832-0441	87832-0443	4	2.00	4.85	6.65	5.00
YES	87832-0640	87832-0642	87832-0641	87832-0643	6	4.00	6.85	8.65	7.00
YES	87832-0840	87832-0842	87832-0841	87832-0843	8	6.00	8.85	10.65	9.00
YES	87832-1040	87832-1042	87832-1041	87832-1043	10	8.00	10.85	12.65	11.00
YES	87832-1240	87832-1242	87832-1241	87832-1243	12	10.00	12.85	14.65	13.00



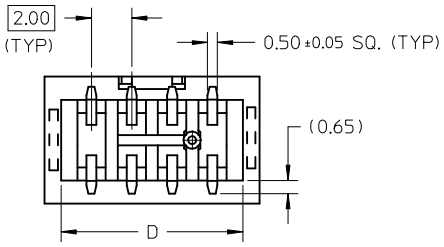


SECTION G-G



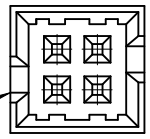


RECOMMENDED PCB PATTERN



NOTES:
1. FOR ILLUSTRATION PURPOSES, 8 CIRCUIT SIZE WAFER IS SHOWN.
2. MATERIAL :
   HOUSING & CAP : 30% G.F., NYLON 46, UL94V-0, COLOR BLACK.
   PIN : 0.50MM SQ.PHOSPHOR BRONZE.
3. PLATING :
   40, 41 - 0.38um/15uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN.TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
   42, 43 - 0.76um/30uin GOLD IN CONTACT AREA AND 1.88um/75uin MIN.TIN IN SOLDER TAIL AREA OVER 1.27um/50uin MIN. NICKEL OVERALL.
4. PIN PUSHOUT FORCE : 0.91 KG MIN. IN EITHER DIRECTION.
5. PRODUCT SPECIFICATION PS-87831-027 APPLIES.
6. COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL ON A GAUGE SURFACE.
7. CAP TO BE POSITION IN THE CENTER OF HEADER FOR PICK AND PLACE.
8. CKT 4 & 6 HAS NO IDENTIFICATION TAG.
9. THIS HEADER MATES WITH MOLEX:
   a) CRIMP RECEPTACLE HOUSING, 51110 SERIES WITH CRIMP TERMINAL, 50394 SERIES.
   b) 2MM MILLIGRID DUAL ROW IDT, 87568 SERIES.
10. PARTS SHALL BE PACKED IN MOISTURE BAG WITH DESICCANT GEL.
11. NO CENTRE POLARIZATION SLOT FOR CKT SIZE 4 AND 6.

4 CKT:
BOTH SIDE WITH POLARIZATION SLOT
6 CKT & ABV:
ONLY 1 SIDE WITH POLARIZATION SLOT


4 CKT TOP VIEW

REVISED
EC NO: S2009-0943 2009/07/01
DRWN:YMCHONG 2009/07/08
CH'KD:SKANG
APPR:MLONG 2009/07/16
DESCRIPTION
REV
A5

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.15	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

		DATE
DRAWN BY	ATSEE	2004/07/29
CHECKED BY	KCLING	2004/08/05
APPROVED BY	SKTOH	2004/08/05

TITLE: MGRID, SHROUDED HEADER W/PEG/CAP/LOCK FEATURES SMT, IN TUBE AND T&R

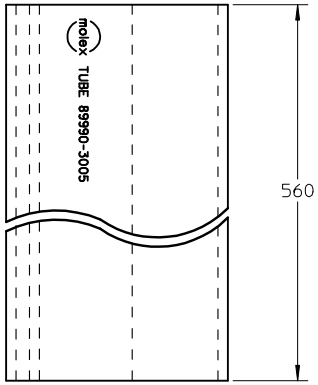
MOLEX INCORPORATED

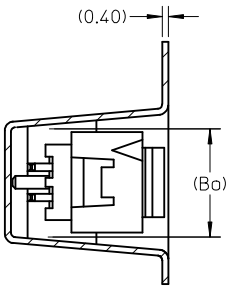
MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87832-013
SHEET NO.: 1 OF 2
SIZE: A3

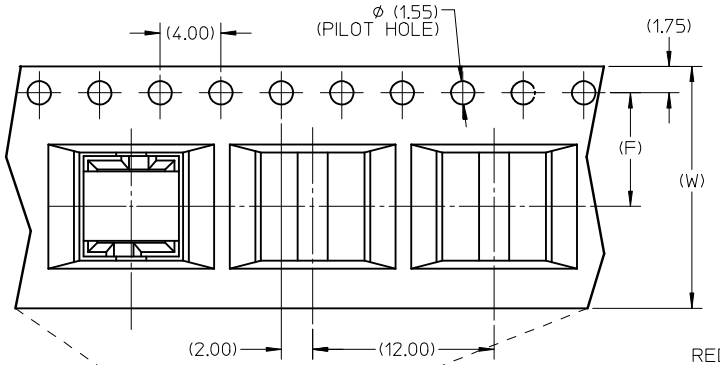
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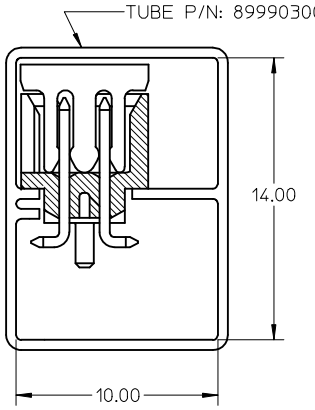
WITH CAP IN TUBE PACKAGING

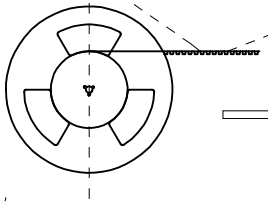
PART NUMBER WITH CAP IN TAPE/REEL		CKT SIZE	EMBOSS TAPE PART NUMBER	TOP TAPE NUMBER	REEL NUMBER	(F)	(Bo)	(So)	(W)
87832-0440	87832-0442	4	89990-7601	89990-5602	89990-5709	7.50	7.15	-	16.00
87832-0640	87832-0642	6	89990-7752	89990-5603	89990-5710	11.50	9.15	-	24.00
87832-0840	87832-0842	8	89990-7753	89990-5603	89990-5710	11.50	11.05	-	24.00
87832-1040	87832-1042	10	89990-7754	89990-5603	89990-5710	11.50	13.05	-	24.00
87832-1240	87832-1242	12	89990-7755	89990-5604	89990-5711	14.20	15.15	28.40	32.00



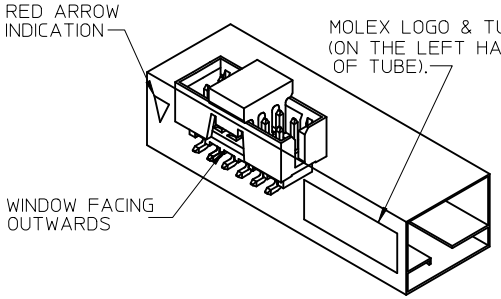






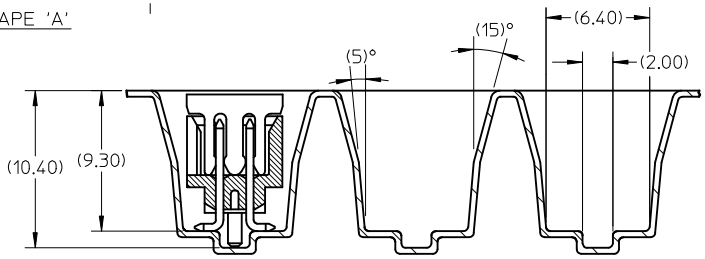


CUSTOMER PULL OUT DIRECTION



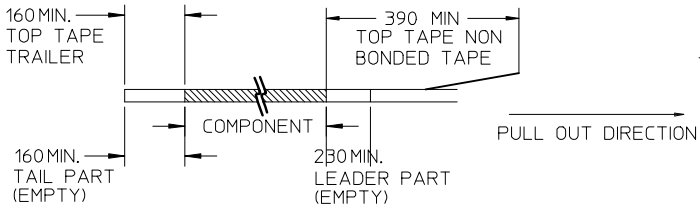
REF : ORIENTATION OF PART IN TUBE.
(FOR THE REFERENCE OF PART/TUBE ASSEMBLY.)

EMBOSSED CARRIER TAPE 'A'

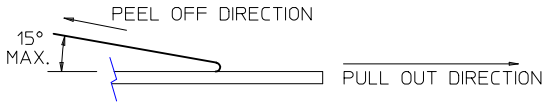


NOTES:

1. LEADER AND TRAILER TAPE



2. PEELING OFF FORCE OF THE TOP TAPE: 20-80gf.
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)



3. PACKAGING STANDARD IS AS PER EIA-481.

REVISED
EC NO: S2009-0943 2009/07/01
DRWN:YMCHONG 2009/07/08
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QUALITY SYMBOLS
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SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY	ATSEE
DATE	2004/07/29
CHECKED BY	KCLING
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APPROVED BY	SKTOH
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MATERIAL NO.	SEE TABLE

TITLE: MGRID, SHROUDED HEADER W/PEG/CAP/LOCK FEATURES SMT, IN TUBE AND T&R

MOLEX INCORPORATED

DOCUMENT NO. SD-87832-013
SHEET NO. 2 OF 2
SIZE A3

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