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Part Number:

0878320843

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, Tube, Lead-free

Documents:

Drawing (PDF)

Product Specification PS-87831-027 (PDF)

RoHS Certificate of Compliance (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

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)

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

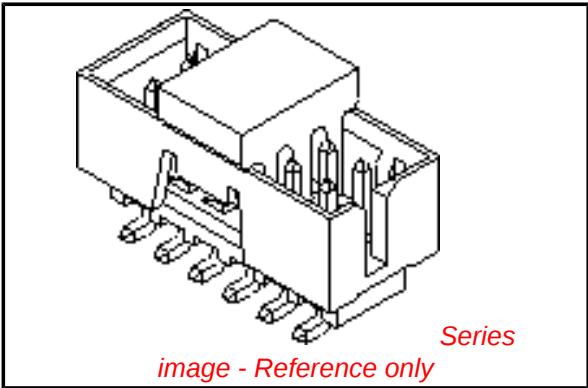
Yes

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

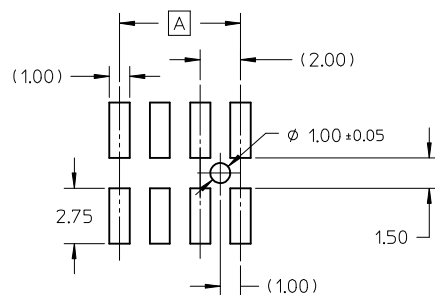
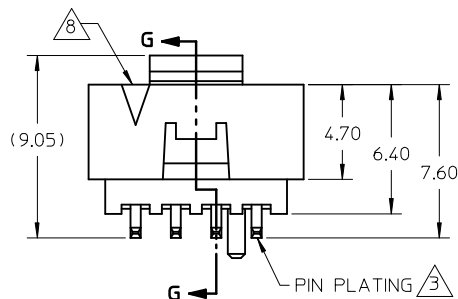
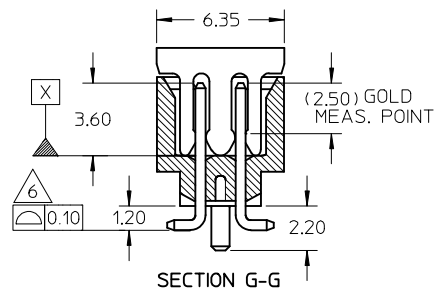
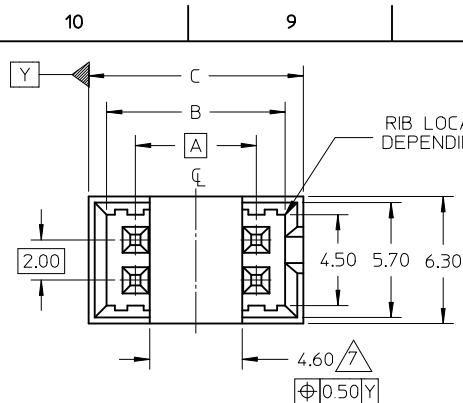
Material Info

Reference - Drawing Numbers

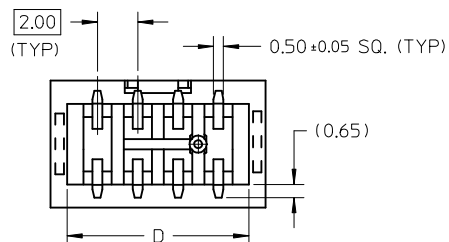
Product Specification	PS-87831-027
Sales Drawing	SD-87832-013

This document was generated on 05/25/2010

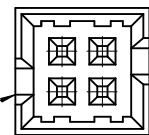
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RECOMMENDED PCB PATTERN



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



4 CKT TOP VIEW

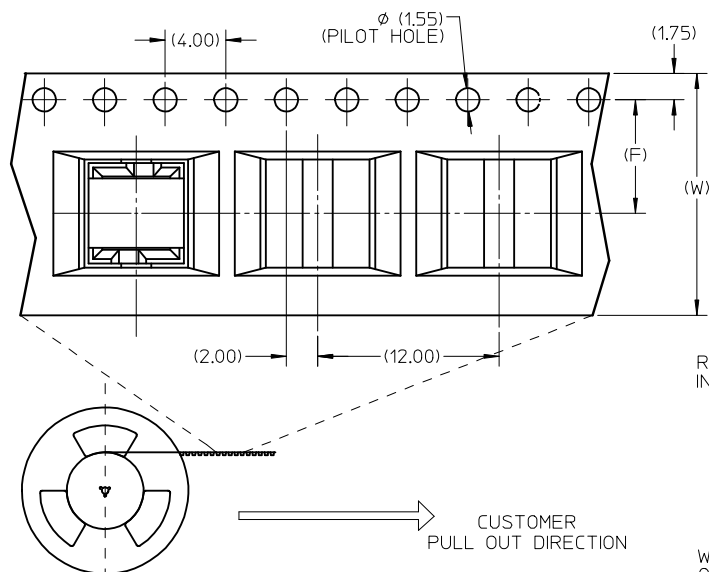
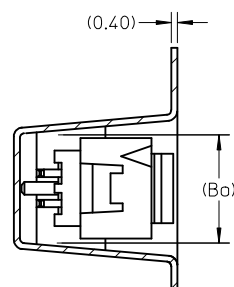
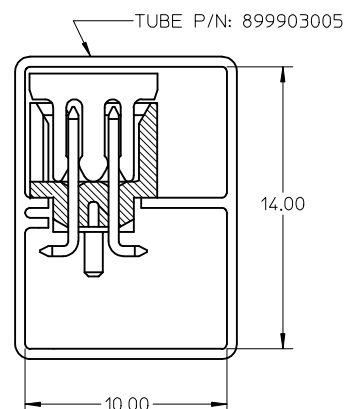
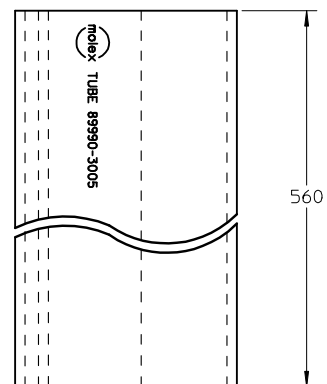
PEG OPTION	P/N WITH CAP IN TAPE & REEL		P/N WITH CAP IN TUBE		CKT SIZE	DIMENSION			
	15µm Gold	30µm Gold	15µm Gold	30µm Gold		A	B	C	D
	NO	YES	YES	YES		2.00	4.85	6.65	5.00
	87832-0440	87832-0442	87832-0441	87832-0443	4	4.00	6.85	8.65	7.00
	87832-0640	87832-0642	87832-0641	87832-0643	6	6.00	8.85	10.65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

NOTES:

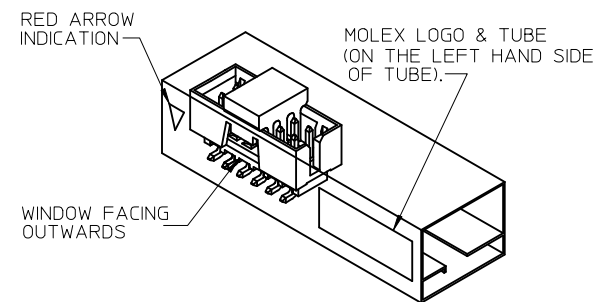
- FOR ILLUSTRATION PURPOSES, 8 CIRCUIT SIZE WAFER IS SHOWN.
- MATERIAL :
HOUSING & CAP : 30% G.F., NYLON 46, UL94V-0, COLOR BLACK.
PIN : 0.50MM SQ.PHOSPHOR BRONZE.
- PLATING :
40, 41 - 0.38µm/15uin GOLD IN CONTACT AREA AND 1.88µm/75uin MIN.TIN IN SOLDER TAIL AREA OVER 1.27µm/50uin MIN. NICKEL OVERALL.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

REVISED	EC NO: S2009-0943	DRWN:YMC HONG	CHKD:SKANG	APPR:MLONG	REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	TITLE	MOLEX INCORPORATED	DOCUMENT NO.	SHEET NO.
								mm	INCH	mm ONLY	DATE	NTS	METRIC					
							▽=0	4 PLACES	± ---	± ---	ATSEE	2004/07/29			MGRID, SHROUDED HEADER			
							∇=0	3 PLACES	± ---	± ---	CHECKED BY	DATE			W/PEG/CAP/LOCK FEATURES			
								2 PLACES	± 0.15	± ---	KCL ING	2004/08/05			SMT, IN TUBE AND T&R			
								1 PLACE	± ---	± ---	APPROVED BY	DATE						
								ANGULAR ± 3 °		SKTOH	2004/08/05							
								DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.								
								SEE TABLE		SIZE								
								THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		A3								

WITH CAP IN TUBE PACKAGING



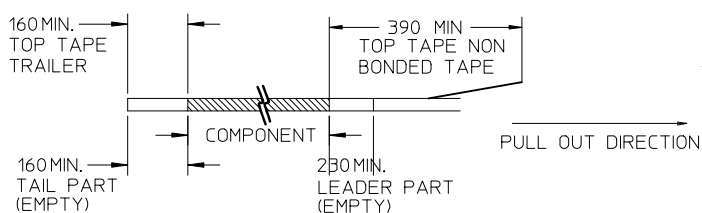
EMBOSSED CARRIER TAPE 'A'



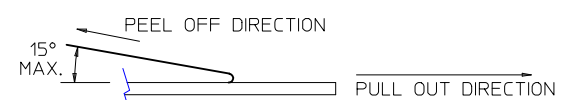
REF : ORIENTATION OF PART IN TUBE.
(FOR THE REFERENCE OF PART/TUBE ASSEMBLY.)

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.

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

QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
▽=0		mm	INCH	DRAWN BY	DATE	TITLE			
▽=0		4 PLACES	± --- ± ---	ATSEE	2004/07/29	MGRID, SHROUDED HEADER W/PEG/CAP/LOCK FEATURES SMT, IN TUBE AND T&R MOLEX INCORPORATED		SD-87832-013	
		3 PLACES	± --- ± ---	CHECKED BY	DATE				
		2 PLACES	± 0.15 ± ---	KCL ING	2004/08/05				
		1 PLACE	± --- ± ---	APPROVED BY	DATE				
ANGULAR ± 3 °		SKTOH		2004/08/05		MATERIAL NO.		SHEET NO.	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					