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Part Number:

0873813019

Status:

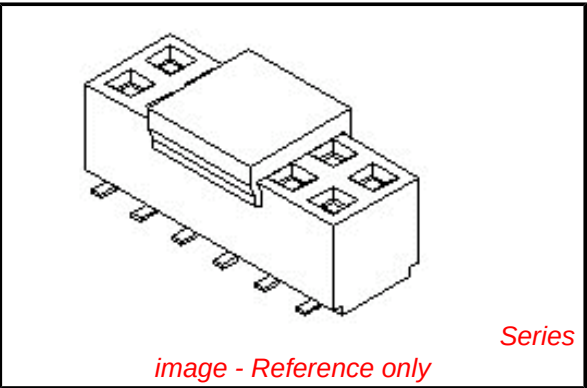
Active

Description:

2.00mm (.079") Pitch Milli-Grid™ Receptacle, Surface Mount, Top Entry, 0.38μm (15μ") Gold (Au) Plating, with Cap, with Locating Pegs, 30 Circuits, Lead-free, Tube

Documents:	
3D Model	Product Specification PS-87380-002 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification	
CSA	LR19980
UL	E29179
General	
Product Family	PCB Receptacles
Series	87381
Application	Board-to-Board
Comments	With Cap
Product Literature Order No	987650-1991
Product Name	Milli-Grid™
Physical	
Circuits (Loaded)	30
Circuits (maximum)	30
Color - Resin	Black
Durability (mating cycles max)	25
Flammability	94V-0
Glow-Wire Compliant	No
Lock to Mating Part	None
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin-Lead
Material - Resin	High Temperature Thermoplastic
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)	15
Plating min: Mating (μm)	0.38
Plating min: Termination (μin)	50
Plating min: Termination (μm)	1.27
Polarized to PCB	No
Robotic Placement	Pick and Place Cap
Surface Mount Compatible (SMC)	N/A
Temperature Range - Operating	-55°C to +105°C
Termination Interface: Style	Surface Mount
Electrical	
Current - Maximum per Contact	1.9A
Voltage - Maximum	125V
Material Info	



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

87381Series

Mates With

87758 Vertical, Through Hole, Stackable PCB Header, 87759 Vertical, Surface Mount, Stackable PCB Header, 87760 Right Angle, Through Hole, Stackable PCB Header, 87831 Vertical, Through Hole PCB Header, 87832 Vertical, Surface Mount PCB

Reference - Drawing Numbers

Product Specification
Sales Drawing

PS-87380-002
SD-87381-***3

This document was generated on 03/18/2010

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F

E

D

C

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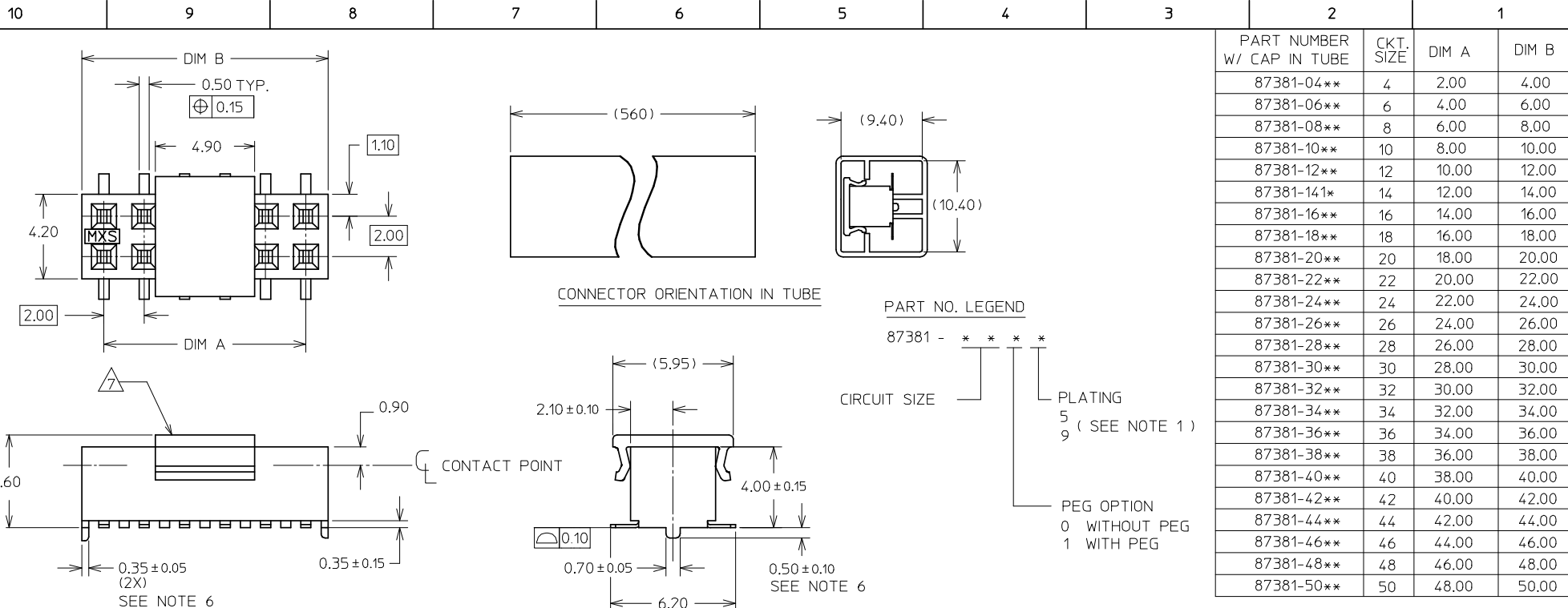
E

D

C

B

A



NOTES:

1. PLATING FINISH :

- 5 - 0.76 μ m MIN. GOLD IN CONTACT AREA
1.27 μ m MIN TIN IN SOLDER TAIL AREA
BOTH OVER 1.27 μ m MIN NICKEL OVERALL
- 9 - 0.38 μ m MIN GOLD IN CONTACT AREA
1.27 μ m MIN TIN IN SOLDER TAIL AREA
BOTH OVER 1.27 μ m MIN NI OVERALL

2. MATERIAL:

HOUSING : NYLON 4/6, 94V-0, COLOUR BLACK
CAP : PCT, GLASS FILLED, COLOUR BLACK
TERMINAL : COPPER ALLOY
EMBOSS TAPE : CLEAR POLYSTYRENE
COVER TAPE : CLEAR POLYESTER

3. PRODUCT SPECIFICATION PS-87380 APPLIES

4. COPLANARITY OF SOLDER TAILS ARE TO BE MEASURED BY RESTING THE PART ON A FLAT GAUGE SURFACE

5. OTHER PLATING OPTIONS AVAILABLE. PLEASE CONTACT FACTORY

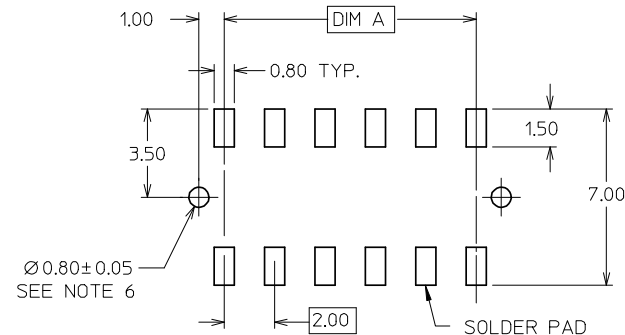
6. PEG AND PCB HOLE OPTIONAL. SEE PART LEGEND FOR PART CONFIGURATION

POSITION OF CAP TO BE LOCATED AT CENTER OF DIM A REGARDLESS OF CKT SIZES.

8. 12 CKT SIZE SHOWN FOR ILLUSTRATION ONLY. SEE CHART FOR ALL AVAILABLE PART SIZES. 22 CKT ILLUSTRATED FOR TAPE/REEL VERSION ON SHT 2.

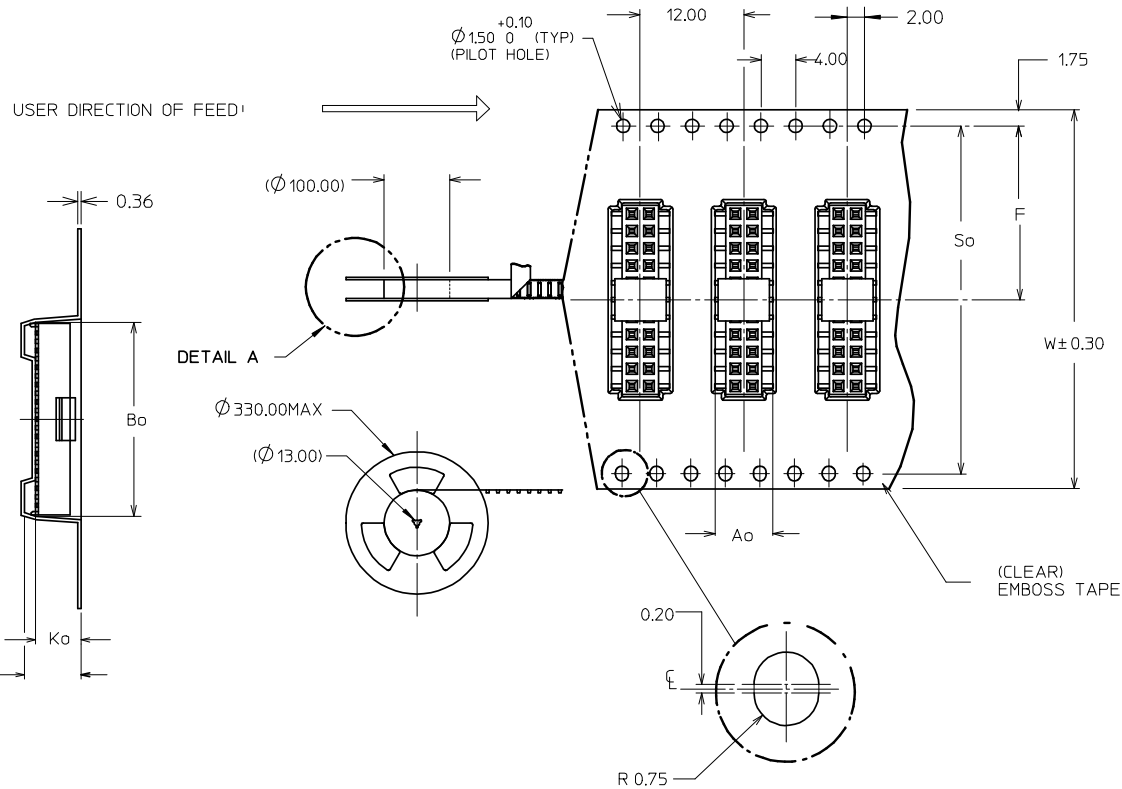
9. PACKING QTY PER REEL IS APPROX. 800PCS.

10. PARTS SHALL BE PACKED IN MOISTURE BARRIER BAG.



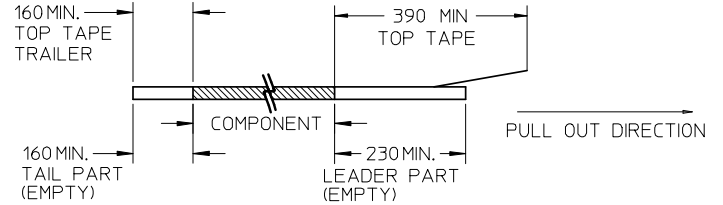
PDR#S-001789-00-00 EC NO: S2008-0938 DRWN:SKANG 2008/04/16 CHKD:ATSEE 2008/04/16 APPR:MLONG 2008/04/16 D3	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
				mm	INCH	DRAWN BY KSEE	DATE 1999/01/06	TITLE MGRID, TOP ENTRY RECEPT. 4MM HT., W/PEGS/CAP IN TUBE AND T&R, SMT					
			4 PLACES	± ---	± ---	CHECKED BY	DATE						
			3 PLACES	± ---	± ---	KCLING	1999/01/11						
			2 PLACES	± 0.2	± ---	APPROVED BY	DATE	MOLEX MOLEX INCORPORATED					
			1 PLACE	± ---	± ---	SKTOH	1999/01/11						
			ANGULAR ± 3 °			MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-87381-***3				1 OF 2	
						SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

CKT SIZE	PLATING FINISH (SEE NOTE #1)	PART NO WITH CAP IN TAPE / REEL	PART NO WITH CAP IN TUBE	W	So	Ao	F	Bo	Ko
08	9	87381-9016	87381-0819	24.00	-	7.00	11.50	8.50	4.80
10	5	87381-9030	87381-1015	24.00	-	7.00	11.50	10.50	4.80
30	9	87381-9015	87381-3019	56.00	52.40	7.00	26.20	30.50	4.80
50	9	87381-9027	87381-5019	72.00	68.40	7.00	34.20	50.50	4.80
50	5	87381-9028	87381-5015	72.00	68.40	7.00	34.20	50.50	4.80

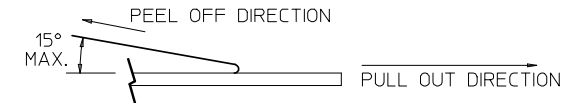


NOTES:

- LEADER AND TRAILER TAPE



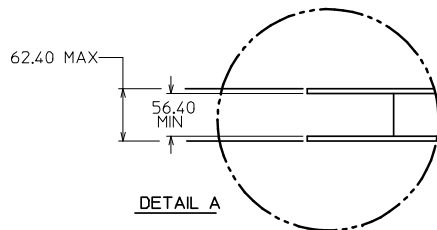
- PEELING OFF FORCE OF THE TOP TAPE: 20-80gf.
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)



- PACKAGING STANDARD IS AS PER EIA-481.

- TAPE & REEL QUANTITY = 800 PCS/REEL

TAPE & REEL ORIENTATION (22 CKT SHOWN FOR REF)
(NTS)



PDR#S-001789-00-00
EC NO: S2008-0938
DRWN:SKANG
CHKD:ATSEE
APPR:MLONG
2008/04/16
2008/04/16
2008/04/16

QUALITY
SYMBOLS
▽=0
▽=0
DESCRIPTION
REV

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.2	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY	DATE
KSEE	1999/01/06
CHECKED BY	DATE
KCLING	1999/01/11
APPROVED BY	DATE
SKTOH	1999/01/11
MATERIAL NO.	
SEE TABLE	
SIZE A3	

SCALE
NTS

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

TITLE
MGRID, TOP ENTRY RECEPT.
4MM HT., W/PEGS/CAP
IN TUBE AND T&R, SMT

MOLEX
MOLEX INCORPORATED

DOCUMENT NO.
SD-87381-***3

SHEET NO.
2 OF 2

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