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Part Number: [0873814683](#)
Status: **Active**
Description: 2.00mm (.079") Pitch Milli-Grid™ Receptacle, Surface Mount, Top Entry, 0.76µm (30µ") Gold (Au) Plating, with Cap, with Locating Pegs, 46 Circuits, Lead-free

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 Name Milli-Grid™

Physical

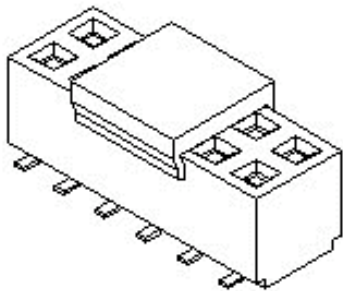
Circuits (Loaded) 46
Circuits (maximum) 46
Durability (mating cycles max) 25
Flammability 94V-0
Glow-Wire Compliant No
Lock to Mating Part None
Material - Metal Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin Nylon
Number of Rows 2
Orientation Vertical
PCB Locator Yes
PCB Retention Yes
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) 50
Plating min: Termination (µm) 1.27
Polarized to PCB No
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

Solder Process Data

Duration at Max. Process Temperature (seconds) 14
Lead-free Process Capability Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature 1



Series

image - Reference only

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Contains SVHC: No
Halogen-Free
Status

China RoHS



Not Reviewed

**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

[87381](#)Series

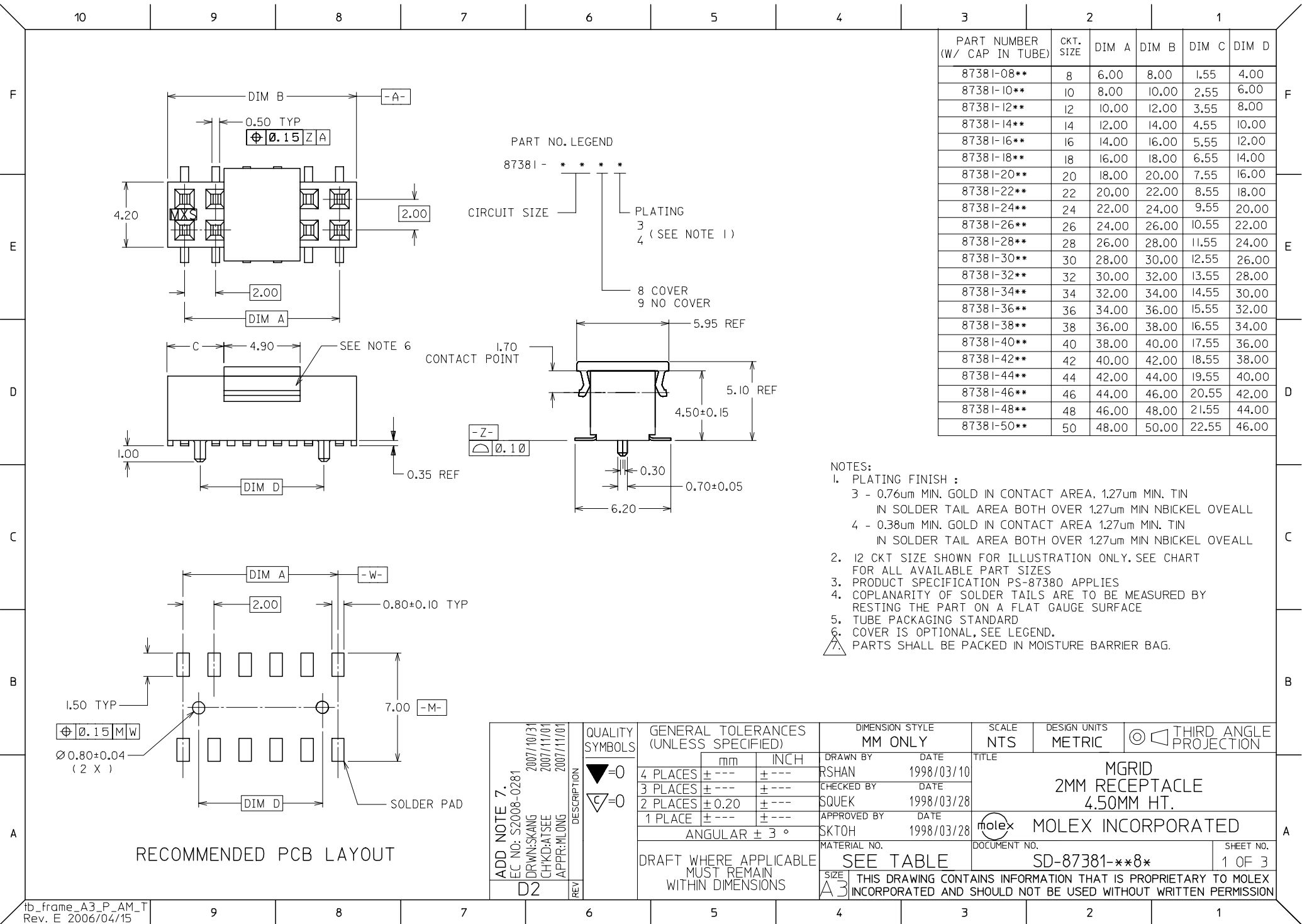
Mates With

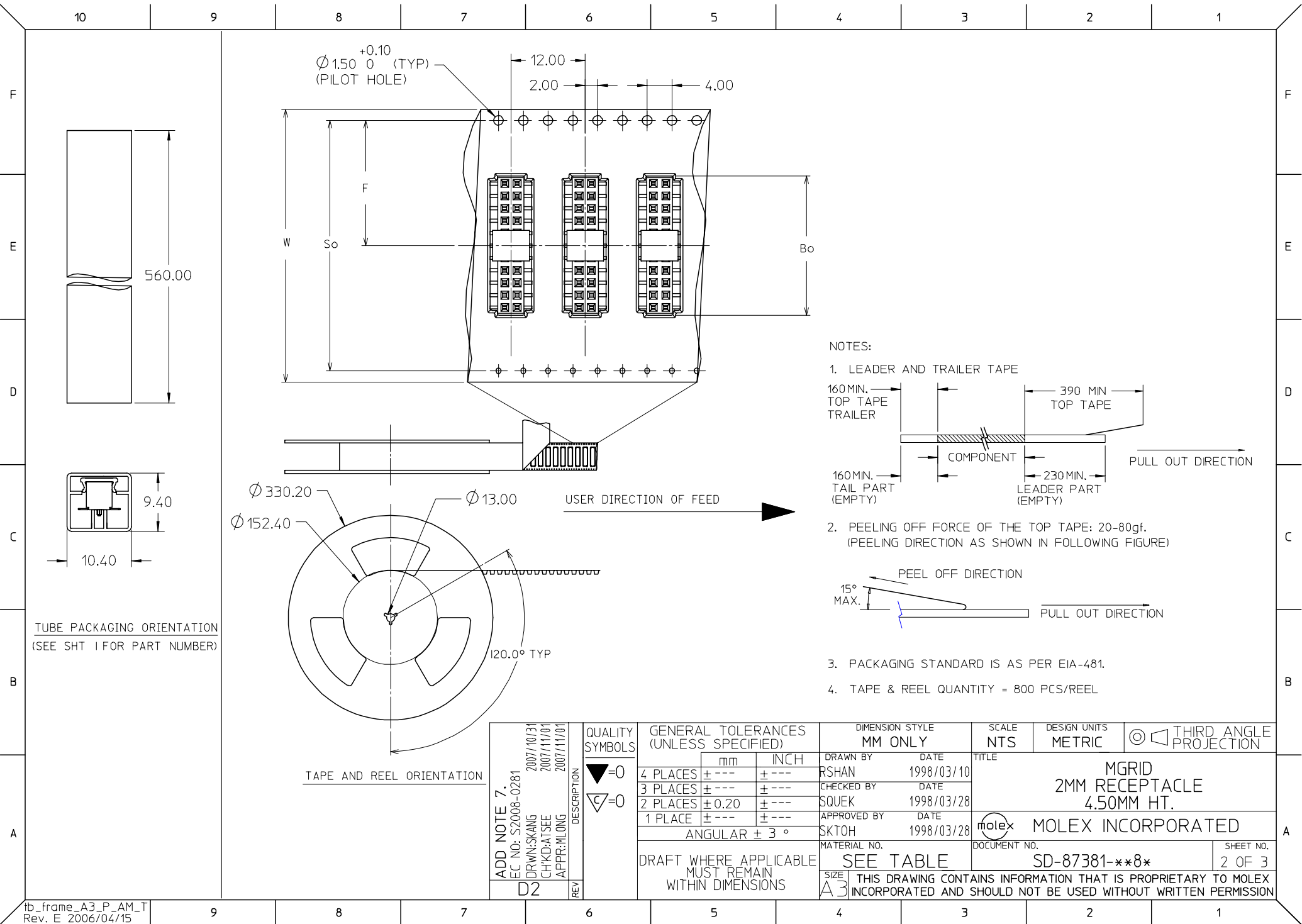
[87758](#) , [87759](#), [87760](#), [87832](#) Surface
Mount PCB Header, [87833](#) Right Angle PCB
Header, [87831](#) Vertical, Through Hole PCB
Header

Process Temperature max. C	265
Material Info	
Reference - Drawing Numbers	
Product Specification	PS-87380-002
Sales Drawing	SD-87381-**8*

This document was generated on 03/18/2010

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F	10	9	8	7	6	5	4	3	2	1			
					PART NUMBER (W/CAP IN TUBE)	MOISTURE BARRIER BAG P/N FOR TUBE	PART NUMBER (W/ CAP IN T&R)	MOISTURE BARRIER BAG P/N FOR T&R	CKT. SIZE	W	So	F	Bo
					87381-2284	89990-0201	87381-8252	89990-0200	22	44.00	40.40	20.20	22.50
					87381-3084		87381-8231		30	56.00	52.40	26.20	30.50
E													
D													
C													
B													
A													

ADD NOTE 7. EC NO: S2008-0281 DRWN:SKANG CHKD:ATSEE APPR:MLONG	2007/10/31 2007/11/01 2007/11/01	DESCRIPTION REV	QUALITY SYMBOLS =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION					
				4 PLACES 3 PLACES 2 PLACES 1 PLACE	mm	INCH	DRAWN BY RSHAN	DATE 1998/03/10	TITLE MGRID 2MM RECEPTACLE 4.50MM HT.	MOLEX INCORPORATED					
					± ---	± ---	CHECKED BY SQUEK	DATE 1998/03/28							
					± 0.20	± ---	APPROVED BY SKTOH	DATE 1998/03/28							
					± ---	± ---	ANGULAR ± 3 °								
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE TABLE		MATERIAL NO. DOCUMENT NO.		SD-87381-**8*		SHEET NO. 3 OF 3	
								SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

tb_frame_A3_P_AM_T Rev. E 2006/04/15	9	8	7	6	5	4	3	2	1
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