

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

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

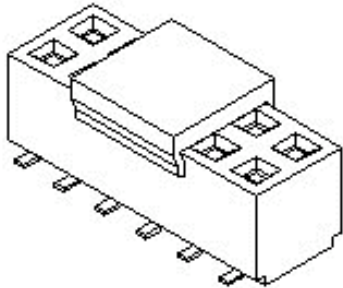
Circuits (Loaded)	46
Circuits (maximum)	46
Durability (mating cycles max)	25
Flammability	94V-0
Glow-Wire Compliant	No
Lock to Mating Part	None
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	Nylon
Number of Rows	2
Orientation	Vertical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

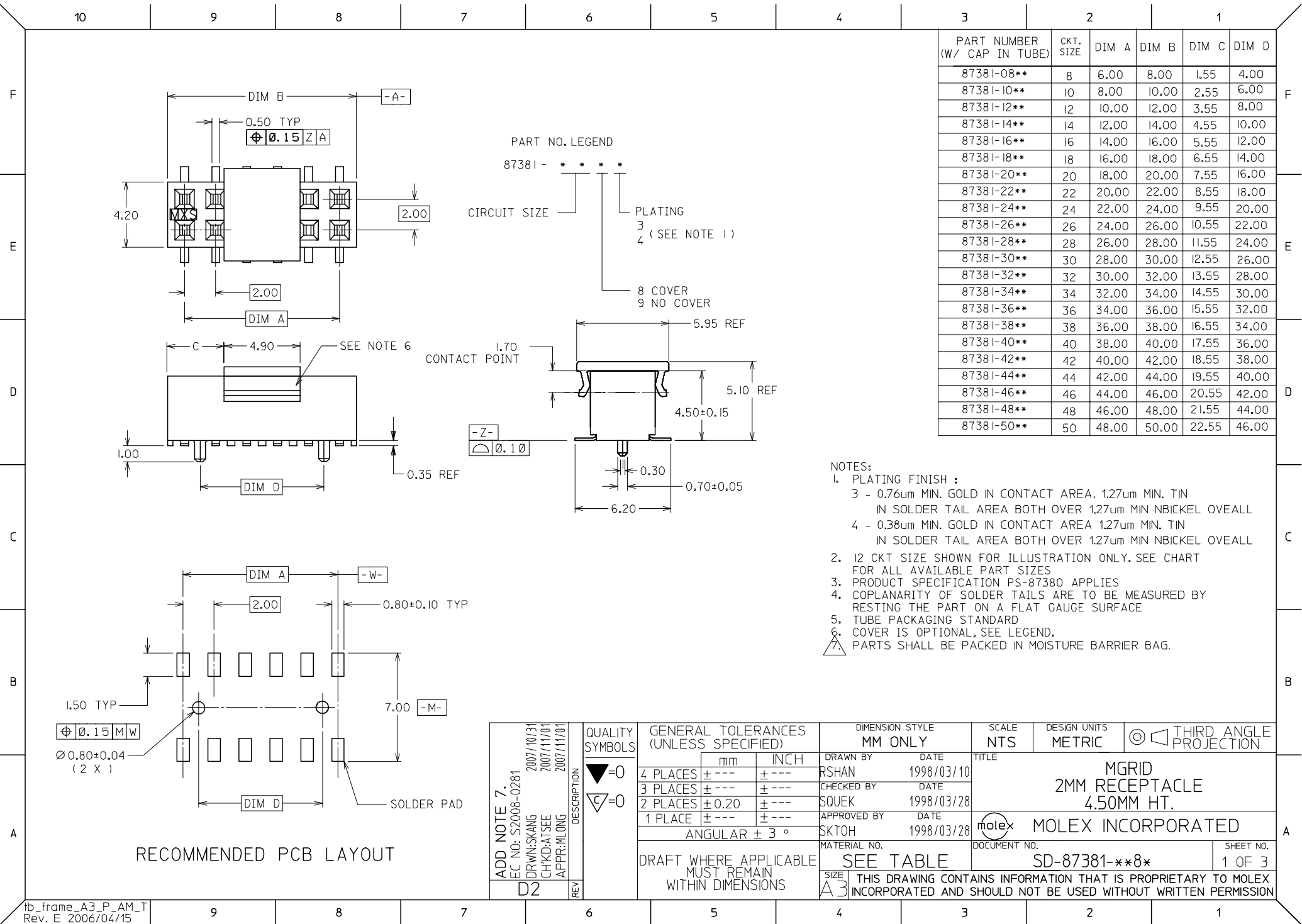
Mates With

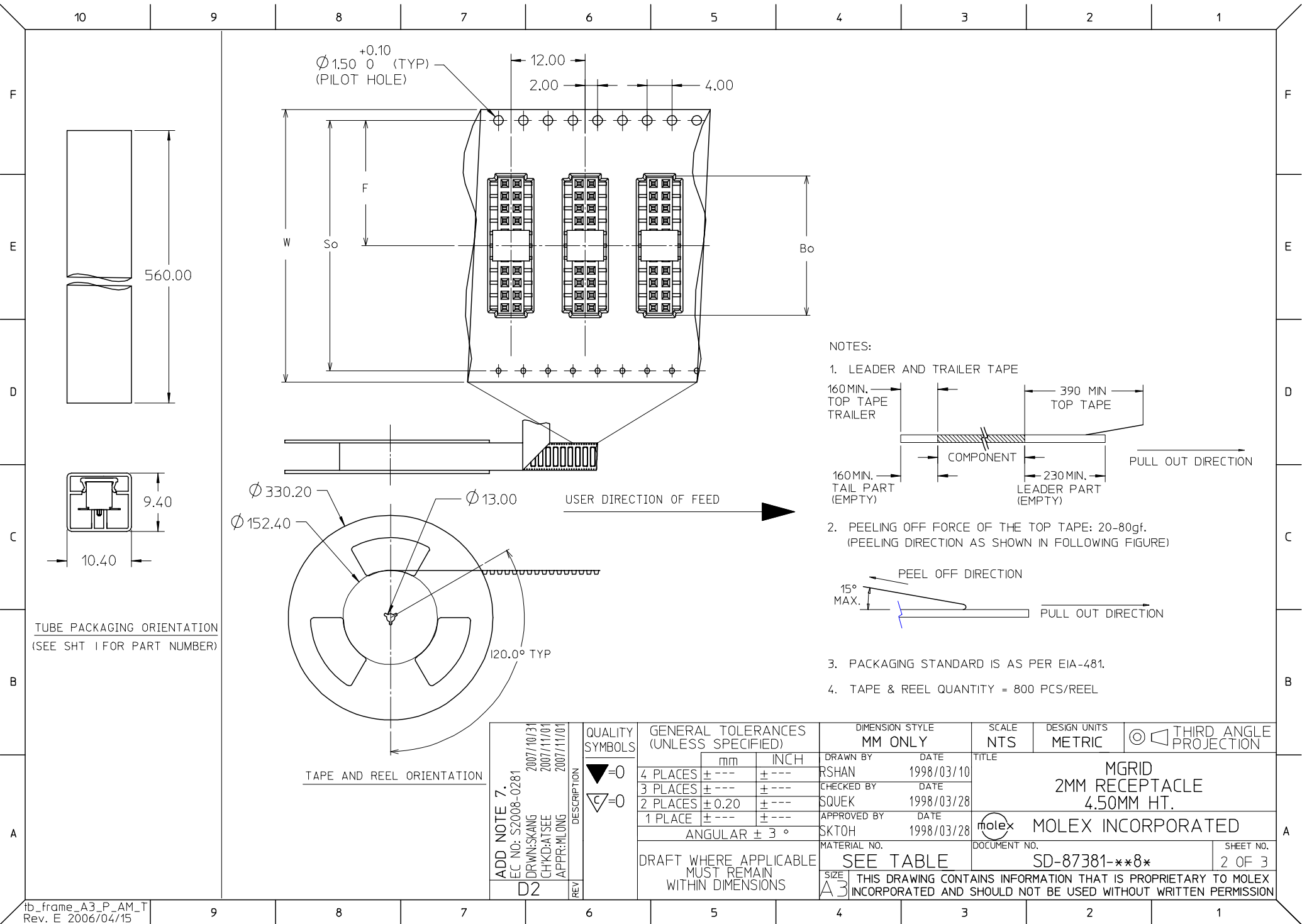
[87758](#) , [87759](#), [87760](#), [87832](#) Surface
Mount PCB Header, [87833](#) Right Angle PCB
Header, [87831](#) Vertical, Through Hole PCB
Header

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 D2	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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