molex
one company › a world of innovation

Part Number:	**0872643252**
Status:	**Active**
Description:	2.00mm (.079") Pitch Milli-Grid™ Receptacle, Side Entry, Through Hole, 0.38µm (15µ") Gold (Au) Selective, 32 Circuits, Leadfree

Documents:

3D Model	Product Specification PS-87264 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Series image - Reference only

Agency Certification
CSA	LR19980
UL	E29179

General
Product Family	PCB Receptacles
Series	87264
Application	Board-to-Board
Product Literature Order No	987650-1991
Product Name	Milli-Grid™

Physical
Circuits (Loaded)	32
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
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Right Angle
PC Tail Length (in)	0.100 In
PC Tail Length (mm)	2.55 mm
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Tube
Pitch - Mating Interface (in)	0.079 In
Pitch - Mating Interface (mm)	2.00 mm
Plating min: Mating (µin)	15.2
Plating min: Mating (µm)	0.38
Plating min: Termination (µin)	101.6
Plating min: Termination (µm)	2.54
Polarized to PCB	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55℃ to +105℃
Termination Interface: Style	Surface Mount

Electrical
Current - Maximum per Contact	1A
Voltage - Maximum	125V

Solder Process Data
Duration at Max. Process Temperature (seconds)	14
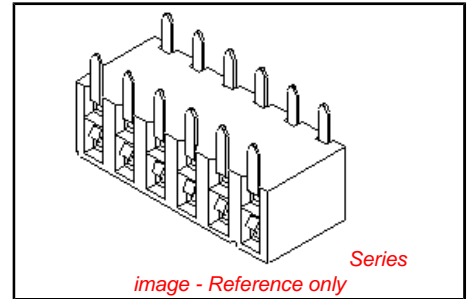
EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free Status
Not Reviewed

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
87264Series

Mates With
87758 , 87759 , 87760

Lead-free Process Capability   SMC & Wave Capable (TH only)
Max. Cycles at Max. Process Temperature   1
Process Temperature max. C   265

Material Info

Reference - Drawing Numbers
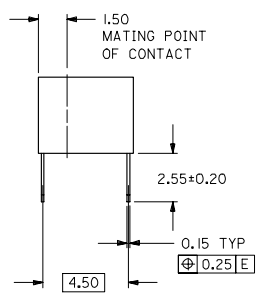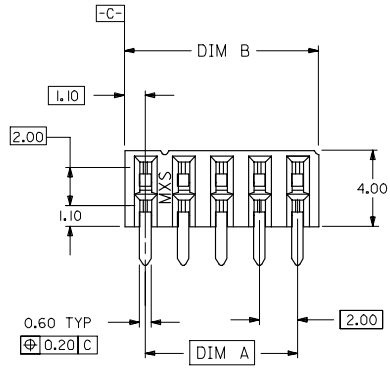Product Specification   PS-87264
Sales Drawing   SD-87264-**50

This document was generated on 04/09/2010
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

-C-

DIM B

1.10

2.00

MXS

4.00

1.10

0.60 TYP
⊕ 0.20 C

DIM A

1.50
MATING POINT
OF CONTACT

2.55±0.20

0.15 TYP
⊕ 0.25 E

2.00

4.50
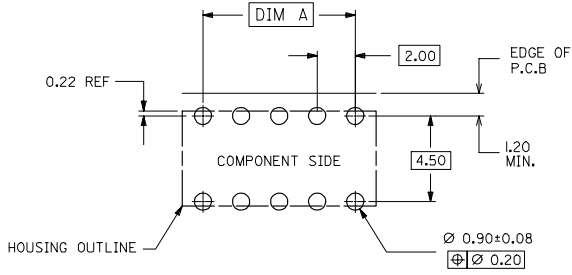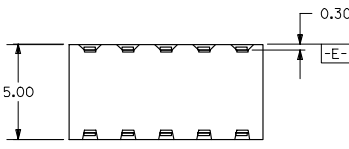
PART NO. LEGEND

87264- * * 5 *

CIRCUIT SIZE   PLATING

POST-PLATED

2 - 0.38um/15uin MIN. GOLD PLATE IN SELECTED AREA AND
    2.54um/100uin MIN. TIN IN SELECTED AREA OVER
    1.27um/50uin NICKEL OVERALL (IN TUBE).

3 - 0.76um/30uin MIN. GOLD PLATE IN SELECTED AREA AND
    2.54um/100uin MIN. TIN IN SELECTED AREA OVER
    1.27um/50uin NICKEL OVERALL (IN TUBE).

8 - 0.38um/15uin MIN. GOLD PLATE IN SELECTED AREA AND
    2.54um/100uin MIN. TIN IN SELECTED AREA OVER
    1.27um/50uin NICKEL OVERALL. (IN TAPE/REEL)

9 - 0.76um/30uin MIN. GOLD PLATE IN SELECTED AREA AND
    2.54um/100uin MIN. TIN IN SELECTED AREA OVER
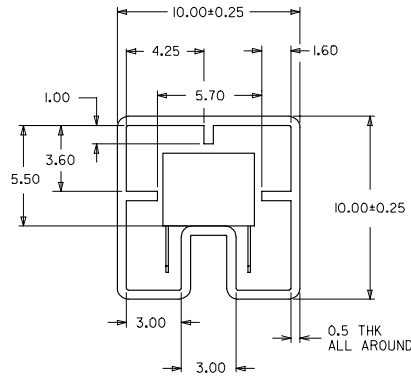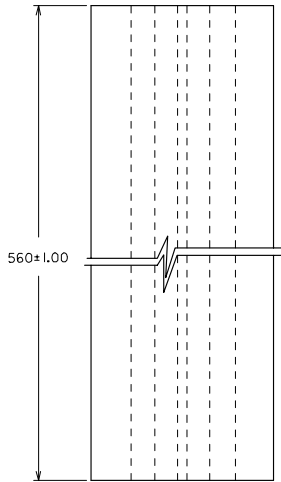   1.27um/50uin NICKEL OVERALL. (IN TAPE/REEL)

0.30

-E-

5.00

DIM A

2.00

EDGE OF
P.C.B

0.22 REF

COMPONENT SIDE

4.50

1.20
MIN.

HOUSING OUTLINE

Ø 0.90±0.08
⊕ Ø 0.20

RECOMMENDED P.C.BOARD LAYOUT

NOTES:

1. 10 CIRCUIT SIZE SHOWN FOR ILLUSTRATION ONLY.
   SEE CHART FOR AVAILABLE PART SIZES.

2. PLATING FINISH : TERMINAL - AS PER LEGEND

3. RECOMMENDED PC BOARD THICKNESS IS 1.60 +/- 0.10mm.

4. PRODUCT SPECIFICATION PS-87264 APPLIES.

5. PART IS MATEABLE TO ALL MILLI-GRID HEADERS WITH MATING
   PIN LENGTH BETWEEN 2.50mm AND 4.20mm.

6. TAPE & REEL OPTION IS SHOWN ON SHT 3 WITH
   8 CKT ILLUSTRATION.

7. PARTS SHALL BE PACKED IN MOISTURE BARRIER BAG.

ADD NOTE 7.
EC NO: S2008-0422
DRWN:SKANG   2007/11/20
CHKD:ATSEE   2007/11/20
APPR:MLONG   2007/11/22

DESCRIPTION

REV

E1

QUALITY
SYMBOLS

▼=0

∇=0

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
JWAN	1992/02/25
CHECKED BY	DATE
MLA1	1992/02/25
APPROVED BY	DATE
RWONG	1992/02/25

MATERIAL NO.
SEE TABLE

SCALE
NTS

DESIGN UNITS
METRIC

◎ ◁ THIRD ANGLE
       PROJECTION

TITLE
MGRID, 2MM DUAL ROW HDR.
SIDE ENTRY RECEPTACLE
T/H

molex   MOLEX INCORPORATED

DOCUMENT NO.
SD-87264-**50

SHEET NO.
1 OF 3

SIZE
A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX
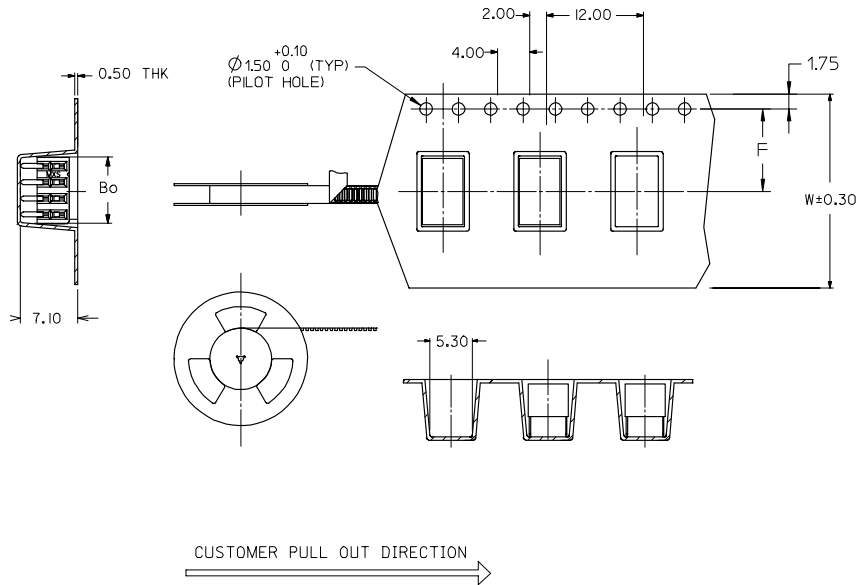INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

tb_frame_A3_P_AM_T
Rev. E 2006/04/15

PART NUMBER 0.38um GOLD PLATING /2\	PART NUMBER 0.76um GOLD PLATING /2\	CKT. SIZE	DIM A	DIM B
87264-065*	87264-065*	6	4.00	6.20
87264-085*	87264-085*	8	6.00	8.20
87264-105*	87264-105*	10	8.00	10.20
87264-125*	87264-125*	12	10.00	12.20
87264-145*	87264-145*	14	12.00	14.20
87264-165*	87264-165*	16	14.00	16.20
87264-185*	87264-185*	18	16.00	18.20
87264-205*	87264-205*	20	18.00	20.20
87264-225*	87264-225*	22	20.00	22.20
87264-245*	87264-245*	24	22.00	24.20
87264-265*	87264-265*	26	24.00	26.20
87264-285*	87264-285*	28	26.00	28.20
87264-305*	87264-305*	30	28.00	30.20
87264-325*	87264-325*	32	30.00	32.20
87264-345*	87264-345*	34	32.00	34.20
87264-365*	87264-365*	36	34.00	36.20
87264-385*	87264-385*	38	36.00	38.20
87264-405*	87264-405*	40	38.00	40.20
87264-425*	87264-425*	42	40.00	42.20
87264-445*	87264-445*	44	42.00	44.20
87264-465*	87264-465*	46	44.00	46.20
87264-485*	87264-485*	48	46.00	48.20
87264-505*	87264-505*	50	48.00	50.20

560±1.00

10.00±0.25
4.25
1.60
1.00
5.70
3.60
5.50
10.00±0.25
3.00
0.5 THK ALL AROUND
3.00

PART IN TUBE ORIENTATION.

ADD NOTE 7.
EC NO: S2008-0422
DRWN:SKANG 2007/11/20
CHKD:ATSEE 2007/11/20
APPR:MLONG 2007/11/22
DESCRIPTION
E1
REV

QUALITY SYMBOLS
▼=0
C=0

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
JWAN   1992/02/25
CHECKED BY DATE
MLAI   1992/02/25
APPROVED BY DATE
RWONG   1992/02/25

MATERIAL NO.
SEE TABLE

SCALE
NTS

DESIGN UNITS
METRIC

THIRD ANGLE PROJECTION

TITLE
MGRID, 2MM DUAL ROW HDR.
SIDE ENTRY RECEPTACLE
T/H

molex   MOLEX INCORPORATED

DOCUMENT NO.
SD-87264-**50

SHEET NO.
2 OF 3

SIZE
A3

tb_frame_A3_P_AM_T
Rev. E 2006/04/15

			PART NUMBER 0.38um GOLD PLATING ⚠2 (IN TAPE/REEL)	PART NUMBER 0.76um GOLD PLATING ⚠2 (IN TAPE/REEL)	CKT SIZE	DIM W	DIM F	DIM Bo
			87264-085*	87264-085*	8	24.00	11.50	8.80

0.50 THK

Bo

7.10

∅ 1.50 +0.10/0 (TYP) (PILOT HOLE)

2.00
4.00
12.00

1.75

F

W±0.30

5.30

CUSTOMER PULL OUT DIRECTION

NOTES:

1. LEADER AND TRAILER TAPE

160 MIN. TOP TAPE TRAILER

390 MIN TOP TAPE

COMPONENT

160 MIN. TAIL PART (EMPTY)

230 MIN. LEADER PART (EMPTY)

PULL OUT DIRECTION

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

PEEL OFF DIRECTION

15° MAX.

PULL OUT DIRECTION

3. PACKAGING STANDARD IS AS PER EIA-481.

4. TAPE & REEL QUANTITY = 600PCS/REEL

	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY	SCALE NTS	DESIGN UNITS METRIC	◎ ◁ THIRD ANGLE PROJECTION
	▼=0		mm	INCH	DRAWN BY JWAN	DATE 1992/02/25	TITLE MGRID, 2MM DUAL ROW HDR. SIDE ENTRY RECEPTACLE T/H	
		4 PLACES	±---	±---				
		3 PLACES	±---	±---	CHECKED BY MLAI	DATE 1992/02/25		
	⟨C⟩=0	2 PLACES	±0.2	±---	APPROVED BY RWONG	DATE 1992/02/25	molex MOLEX INCORPORATED	
		1 PLACE	±---	±---				
		ANGULAR ± 3°						

ADD NOTE 7.
EC NO: S2008-0422
DRWN:SKANG 2007/11/20
CHKD:ATSEE 2007/11/20
APPR:MLONG 2007/11/22

E1

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

MATERIAL NO. SEE TABLE

DOCUMENT NO. SD-87264-**50

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