molex
one company > a world of innovation

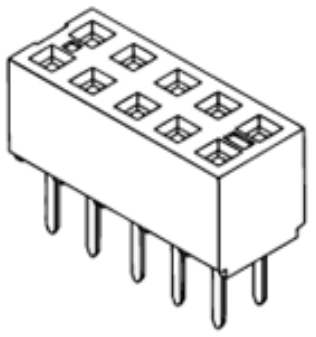
This document was generated on 03/17/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0791077134

Status: Active

Description: 2.00mm (.079") Pitch Milli-Grid™ Receptacle, Vertical, Through Hole, Dual Row, 3.00mm (.118) Tail Length, 0.05µm (2µ") Gold (Au) Selective Plating, 20 Circuits, Leadfree



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-79107 (PDF)
RoHS Certificate of Compliance (PDF)

General

Product Family	PCB Receptacles
Series	79107
Application	Board-to-Board
Product Name	Milli-Grid™

Physical

Circuits (Loaded)	20
Color - Resin	Black
Durability (mating cycles max)	50
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	Vertical
PC Tail Length (in)	0.118 In
PC Tail Length (mm)	3.00 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
Pitch - Term. Interface (in)	0.079 In
Pitch - Term. Interface (mm)	2.00 mm
Plating min: Mating (µin)	2
Plating min: Mating (µm)	0.05
Plating min: Termination (µin)	40
Plating min: Termination (µm)	1
Polarized to Mating Part	No
Polarized to PCB	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55°C to +105°C
Termination Interface: Style	Through Hole

Electrical

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

Solder Process Data

Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	Wave Capable (TH only)

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
79107Series

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

Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

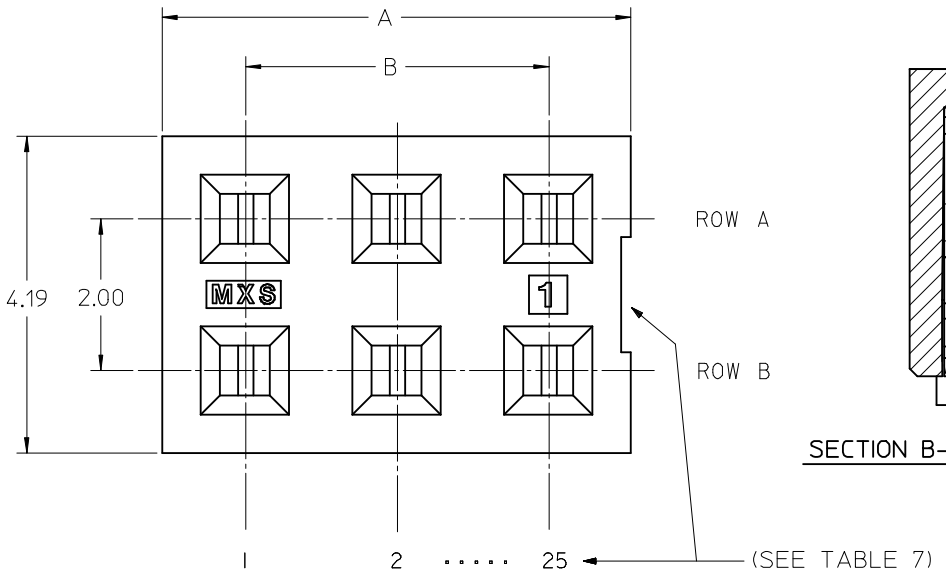
Material Info

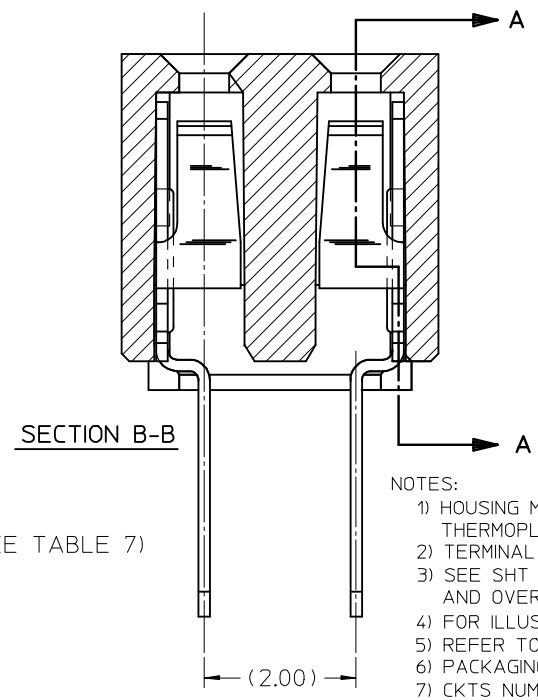
Reference - Drawing Numbers

Product Specification	PS-79107
Sales Drawing	SDA-79107-****

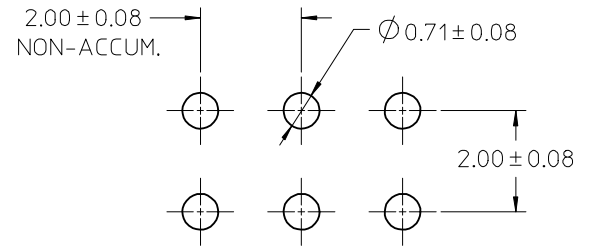
This document was generated on 03/17/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

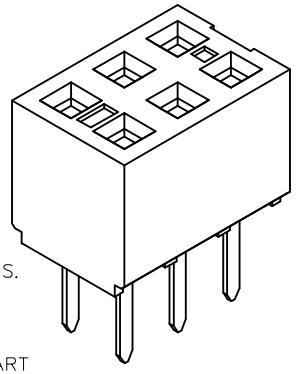




SECTION B-B

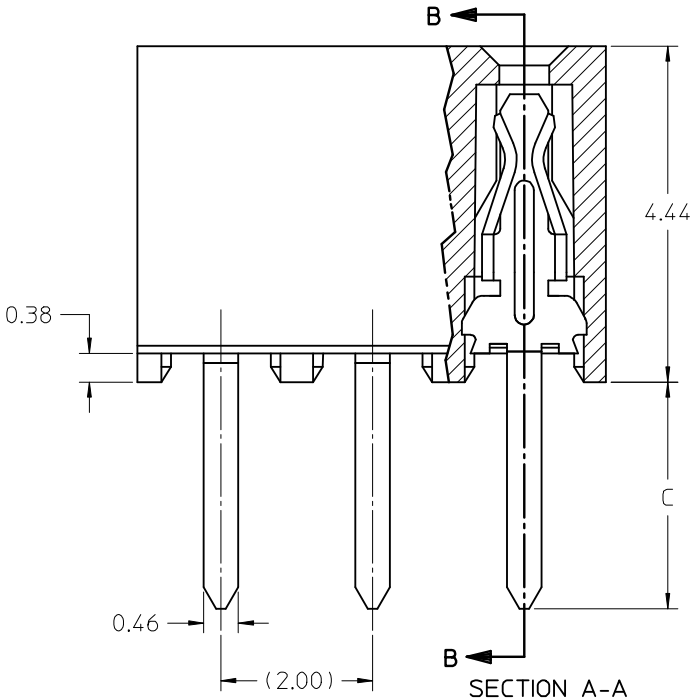


RECOMMENDED PCB LAYOUT



NOTES:

1) HOUSING MATERIAL: GLASS FILLED HIGH TEMP THERMOPLASTIC, COLOR: BLACK
2) TERMINAL MATERIAL: PHOSPHOR BRONZE
3) SEE SHT 2 FOR CKT SIZE, PART NUMBERS AND OVERALL DIMENSIONS, SEE SHT 3 FOR VOIDS.
4) FOR ILLUSTRATION, 6 CKT ASSY SHOWN.
5) REFER TO PRODUCT SPEC PS-79107
6) PACKAGING PER PK-70873-0180
7) CKTS NUMBERED FROM LEFT TO RIGHT WHEN PART IS VIEWED FROM TOP WITH RECESS ON THE RIGHT AS SHOWN.
8) SOLDERTAIL TO BE MEASURED BY PITCH GAUGE.



SECTION A-A

PLATING OPTION:

4) - 30u"/0.76um MIN GOLD PLATE IN SELECTED AREA
75u"/1.90um MIN TIN PLATE IN SELECTED AREA
BOTH OVER 50u"/1.25um MIN NICKEL OVERALL

5) - 15u"/0.38um MIN GOLD PLATE IN SELECTED AREA
75u"/1.90um MIN TIN PLATE IN SELECTED AREA
BOTH OVER 50u"/1.25um MIN NICKEL OVERALL

6) - 2u"/0.05um MIN GOLD PLATE IN SELECTED AREA
40u"/1.02um MIN TIN PLATE IN SELECTED AREA
BOTH OVER 40u"/1.02um MIN NICKEL OVERALL

PDRS#1861, ADD 791075104, 5105, 5106, 5107
EC NO: S2009-0107
DRWN:ATSEE 2008/09/03
CH'KD:SKANG 2008/09/15
APPR:MLONG 2008/09/15
DESCRIPTION
REV
H1

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.38	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: AAB DATE: 1989/05/15
CHECKED BY: MJM DATE: 1989/05/15
APPROVED BY: WAZ DATE: 1989/05/15

TITLE: 2MM DUAL ROW VERTICAL RECEPTACLE T/H

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SDA-79107-****
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

CKT SIZE	DIM 'A'	DIM 'B'	P.C.TAIL DIMENSION 'C' = 3.00						P.C.TAIL DIMENSION 'C' = 1.91					
			PLATING OPTION 5		PLATING OPTION 4		PLATING OPTION 6		PLATING OPTION 5		PLATING OPTION 4		PLATING OPTION 6	
			ITEM NO.		ITEM NO.		ITEM NO.		ITEM NO.		ITEM NO.		ITEM NO.	
04	(4.19)	(2.00)		79107-7001		79107-7051	X	79107-7126		79107-7201		79107-7251	X	79107-7326
06	(6.19)	(4.00)		79107-7002		79107-7052	X	79107-7127		79107-7202		79107-7252	X	79107-7327
08	(8.19)	(6.00)		79107-7003		79107-7053	X	79107-7128		79107-7203		79107-7253	X	79107-7328
10	(10.19)	(8.00)		79107-7004		79107-7054	X	79107-7129		79107-7204		79107-7254	X	79107-7329
12	(12.19)	(10.00)		79107-7005		79107-7055		79107-7130		79107-7205		79107-7255		79107-7330
14	(14.19)	(12.00)		79107-7006		79107-7056	X	79107-7131		79107-7206		79107-7256	X	79107-7331
16	(16.19)	(14.00)		79107-7007		79107-7057	X	79107-7132		79107-7207		79107-7257	X	79107-7332
18	(18.19)	(16.00)		79107-7008		79107-7058	X	79107-7133		79107-7208		79107-7258	X	79107-7333
20	(20.19)	(18.00)		79107-7009		79107-7059	X	79107-7134		79107-7209		79107-7259	X	79107-7334
22	(22.19)	(20.00)		79107-7010		79107-7060	X	79107-7135		79107-7210		79107-7260	X	79107-7335
24	(24.19)	(22.00)		79107-7011		79107-7061	X	79107-7136		79107-7211		79107-7261	X	79107-7336
26	(26.19)	(24.00)		79107-7012		79107-7062	X	79107-7137		79107-7212		79107-7262	X	79107-7337
28	(28.19)	(26.00)		79107-7013		79107-7063	X	79107-7138		79107-7213		79107-7263	X	79107-7338
30	(30.19)	(28.00)		79107-7014		79107-7064	X	79107-7139		79107-7214		79107-7264	X	79107-7339
32	(32.19)	(30.00)		79107-7015		79107-7065	X	79107-7140		79107-7215		79107-7265	X	79107-7340
34	(34.19)	(32.00)		79107-7016		79107-7066	X	79107-7141		79107-7216		79107-7266	X	79107-7341
36	(36.19)	(34.00)		79107-7017		79107-7067	X	79107-7142		79107-7217		79107-7267	X	79107-7342
38	(38.19)	(36.00)		79107-7018		79107-7068	X	79107-7143		79107-7218		79107-7268	X	79107-7343
40	(40.19)	(38.00)		79107-7019		79107-7069	X	79107-7144		79107-7219		79107-7269	X	79107-7344
42	(42.19)	(40.00)		79107-7020		79107-7070	X	79107-7145		79107-7220		79107-7270	X	79107-7345
44	(44.19)	(42.00)		79107-7021		79107-7071	X	79107-7146		79107-7221		79107-7271	X	79107-7346
46	(46.19)	(44.00)		79107-7022		79107-7072	X	79107-7147		79107-7222		79107-7272	X	79107-7347
48	(48.19)	(46.00)		79107-7023		79107-7073	X	79107-7148		79107-7223		79107-7273	X	79107-7348
50	(50.19)	(48.00)		79107-7024		79107-7074	X	79107-7149		79107-7224		79107-7274	X	79107-7349

"X" - DENOTES THE ITEM IS NOT AVAILABLE CURRENTLY.

PDRS#1861, ADD 79107-5104, 5105, 5106, 5107
EC NO: S2009-0107 2008/09/03
DRWN:ATSEE 2008/09/15
CH'KD:SKANG 2008/09/15
APPR:MLONG
DESCRIPTION
REV
H1

QUALITY SYMBOLS
▼=0
▽C=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.38	± ---

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: AAB DATE: 1989/05/15
CHECKED BY: MJM DATE: 1989/05/15
APPROVED BY: WAZ DATE: 1989/05/15

TITLE: 2MM DUAL ROW VERTICAL RECEPTACLE T/H

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SDA-79107-****
SHEET NO.: 2 OF 3
SIZE: A3

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

MOLDED VOID OPTION

ASSEMBLIES WITHOUT PEGS

CKT. SIZE	ASSEMBLY ITEM NO.	VOID LOCATION(S) SEE SHEET 1 FOR CONVENTION ROW	VOID LOCATION(S) SEE SHEET 1 FOR CONVENTION CKT. NO.(s)	PLATING OPTION	DIM. "A"	DIM. "B"	P.C. TAIL DIM. "C"
24	79107-5101	ROW B	6	5	(24.19)	(22.00)	(3.00)
10	79107-5102	ROW A	5	5	(10.19)	(8.00)	(3.00)
26	79107-5103	ROW B	5	5	(26.19)	(24.00)	(3.00)
20	79107-5104	ROW A	7	5	(20.19)	(18.00)	(1.91)
24	79107-5105	ROW B	10	5	(24.19)	(22.00)	(1.91)
20	79107-5106	ROW A	7	5	(20.19)	(18.00)	(3.00)
24	79107-5107	ROW B	10	5	(24.19)	(22.00)	(3.00)

"X" - DENOTES THE ITEM IS NOT AVAILABLE CURRENTLY.

NOTES

1. TERMINALS WILL BE PRESENT IN VOIDED LOCATIONS HOWEVER, PIN WINDOWS WILL BE CLOSED.
2. VOIDS CANNOT BE PRESENT IN BOTH ROWS ON A CONNECTOR.

PDRS#1861, ADD 791075104, 5105, 5106, 5107 2008/09/03
EC NO: S2009-0107 2008/09/15
DRWN:ATSEE CHKD:SKANG APPR:MLONG 2008/09/15
DESCRIPTION
H1 REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± 0.38	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: AAB DATE: 1989/05/15
CHECKED BY: MJM DATE: 1989/05/15
APPROVED BY: WAZ DATE: 1989/05/15

TITLE: 2MM DUAL ROW VERTICAL RECEPTACLE T/H

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SDA-79107-****
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