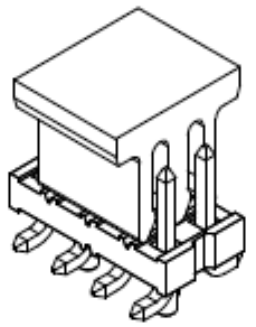
This document was generated on 05/25/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0877594475
Status: Active
Overview: milligrid
Description: 2.00mm (.079") Pitch Milli-Grid™ Header, Surface Mount, Vertical, 44 Circuits, 0.76µm (30µ") Gold (Au) Selective Plating, without Press-fit Plastic Pegs, with Pick-and-Place Cap, Tape and Reel Packaging, Lead-free



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-87761-100 (PDF)
RoHS Certificate of Compliance (PDF)

Agency Certification

UL	E29179

General

Product Family	PCB Headers
Series	87759
Application	Board-to-Board
Overview	milligrid
Product Name	Milli-Grid™

Physical

Breakaway	Yes
Circuits (Loaded)	44
Circuits (maximum)	44
Color - Resin	Black
Durability (mating cycles max)	100
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	None
Mated Height (in)	0.150 In
Mated Height (mm)	3.80 mm
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Vertical
PCB Locator	No
PCB Retention	None
Packaging Type	Embossed Tape on Reel
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
Polarized to Mating Part	No
Polarized to PCB	No
Robotic Placement	Pick and Place Cap
Shrouded	No
Stackable	Yes
Temperature Range - Operating	-55°C to +105°C

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
87759Series

Mates With
79107 Milli-Grid™ Receptacle, Vertical, Through Hole. 79108 Milli-Grid™ Flex-to-Board, Vertical Receptacle. Milli-Grid™ Receptacle, Surface Mount. 79109. 87381

Termination Interface: Style	Surface Mount

Electrical

Current - Maximum per Contact	2A
Voltage - Maximum	125V

Material Info

Reference - Drawing Numbers

Packaging Specification	PK-89990-485
Product Specification	PS-87761-100
Sales Drawing	SD-87759-118

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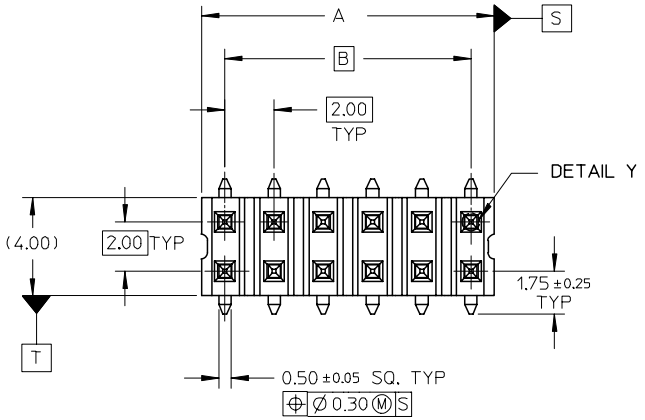
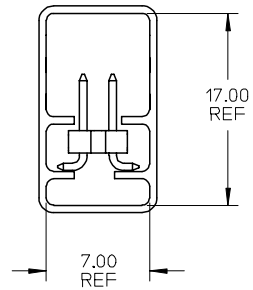
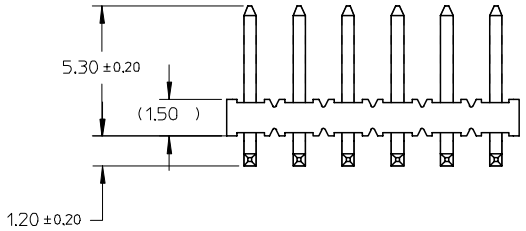
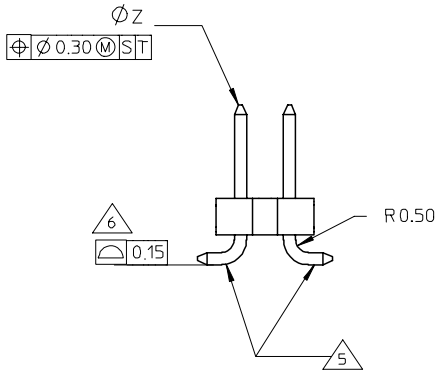
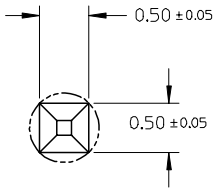




PART WITHOUT CAP
IN TUBE ORIENTATION







DETAIL Y

NOTE:

1. MATERIAL:
   HSG & CAP - LCP,
   UL 94V-0, COLOUR BLACK
   PIN - 0.50 SQ PHOSPHOR BRONZE
2. PLATING:
   0.76um MIN GOLD PLATE AT CONTACT AREA,
   TIN PLATE AT SOLDER AREA,
   BOTH OVER NICKEL UNDERPLATE
3. PIN PUSHOUT FORCE: 1KG MIN IN EITHER DIRECTION
4. PRODUCT SPEC PS-87761-100 APPLIES.

△5 BEND DEPRESSION IS ACCEPTABLE SO LONG AS IT DOES NOT AFFECT THE OVERALL COPLANARITY OF TAIL.

△6 COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDERTAIL ON A FLAT SURFACE.

△7 CAP TO BE LOCATED AS CENTRAL OF PART AS POSSIBLE TOP SURFACE OF CAP TO BE FLAT FOR THE PURPOSE OF PICK & PLACE BY VACUUM SUCTION NOZZLE.

8. FOR ILLUSTRATION PURPOSES, 12CKT IS SHOWN.

△9 CKT 4 & 6 IS CUT FROM CKT 8 & 12 RESPECTIVELY ROUGH EDGES ARE EXPECTED ALONG THE CUTTING EDGES.

△10 PART TO BE PACKED IN TRAY 10 ONLY.

11. TUBE LENGTH IS 560MM REF STANDARD.

REVISED TUBE SPEC 2007/04/10
EC NO: S2007-0829 2007/04/12
DRWN:SKLIM01 2007/04/17
CHKD:CWLAM
APPR:KWLEE
DESCRIPTION
REV B

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
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: KSEE DATE: 2003/12/17
CHECKED BY: KCLING DATE: 2004/01/12
APPROVED BY: SKTOH DATE: 2004/01/12
MATERIAL NO.: SEE TABLE

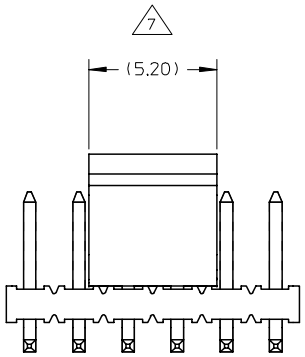
TITLE: MGRID, 2MM DUAL ROW HEADER, SMT

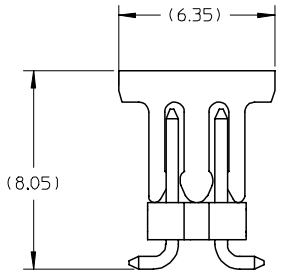
MOLEX INCORPORATED

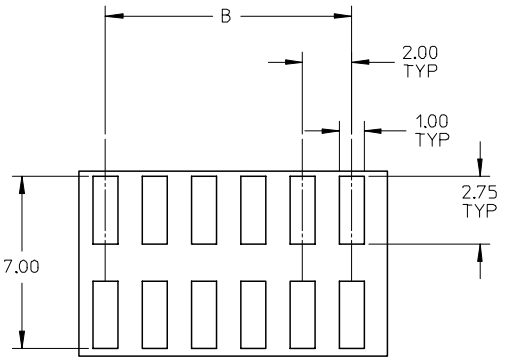
DOCUMENT NO.: SD-87759-118
SHEET NO.: 1 OF 4

SIZE A3

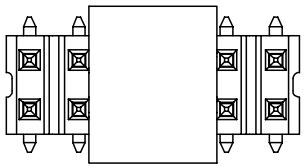
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

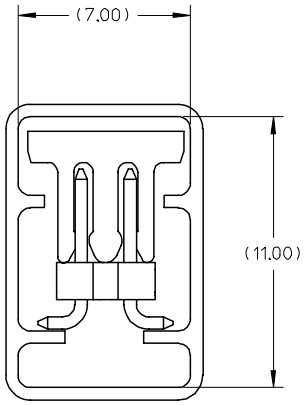






RECOMMENDED SOLDER PAD LAYOUT





PART WITH CAP IN
TUBE ORIENTATION

REVISED TUBE SPEC
EC NO: S2007-0829 2007/04/10
DRWN:SKLIM01 2007/04/12
CHKD:CWLAM 2007/04/17
APPR:KWLEE
DESCRIPTION
B
REV

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
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: KSEE DATE: 2003/12/17
CHECKED BY: KCLING DATE: 2004/01/12
APPROVED BY: SKTOH DATE: 2004/01/12

TITLE: MGRID, 2MM DUAL ROW HEADER, SMT

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87759-118
SHEET NO.: 2 OF 4
SIZE: A3

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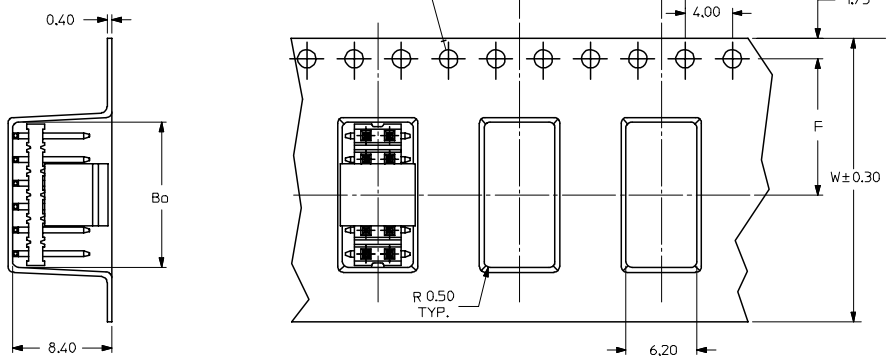
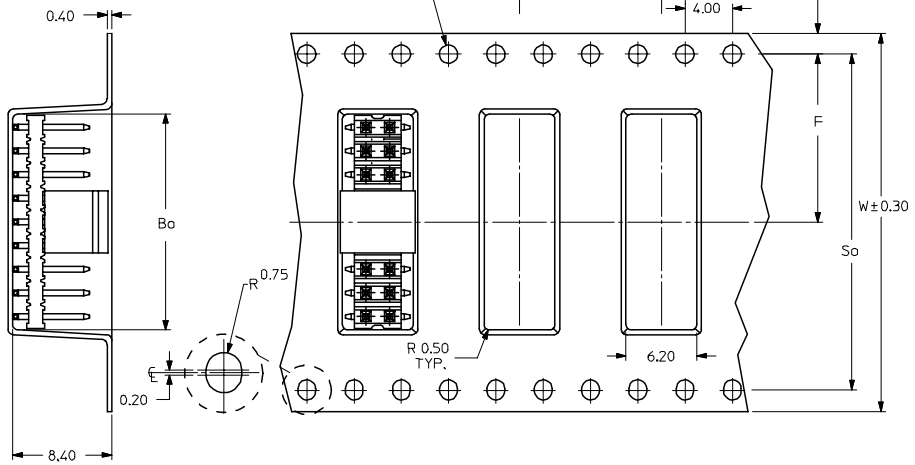
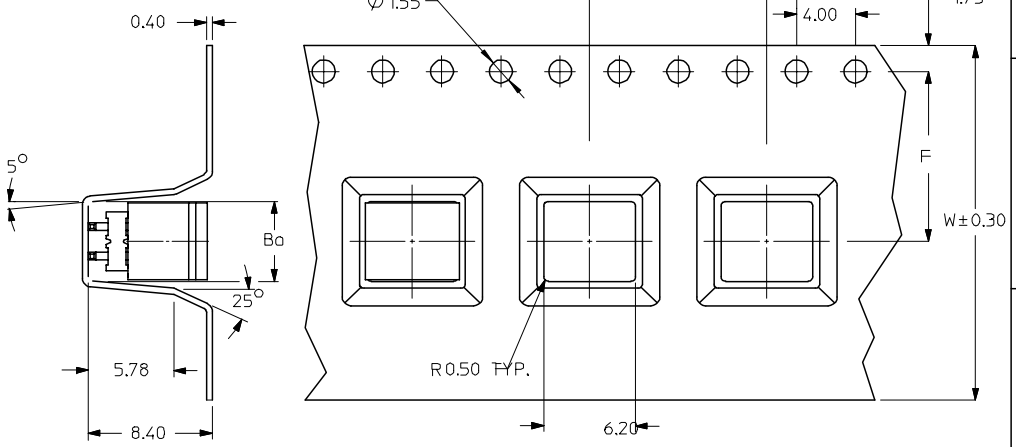
EMBOSSED CARRIER TAPE TYPE "A"



EMBOSSED CARRIER TAPE TYPE "B"



EMBOSSED CARRIER TAPE TYPE "C"



THIS TYPE OF CARRIER IS FOR CKT SIZE 8 AND BELOW.

REVISED TUBE SPEC	EC NO: S2007-0829	DRWN:SKLIM01	CHKD:CWLAM	APPR:KWLEE	DESCRIPTION	REV
		2007/04/10	2007/04/12	2007/04/17		B

QUALITY SYMBOLS
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▽C=0

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

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY
SCALE	NTS
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	KSEE
DATE	2003/12/17
CHECKED BY	KCLING
DATE	2004/01/12
APPROVED BY	SKTOH
DATE	2004/01/12
MATERIAL NO.	SEE TABLE
TITLE	MGRID, 2MM DUAL ROW HEADER, SMT
	MOLEX INCORPORATED
DOCUMENT NO.	SD-87759-118
SHEET NO.	3 OF 4
SIZE	A3

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PART NUMBER WITHOUT CAP IN TUBE	PART NUMBER WITH CAP IN TUBE	PART NUMBER WITH CAP IN TAPE AND REEL.	CKT SIZE	A	B	Bo	F	So	W	EMBOSSED TYPE
87759-0415 △9 △10	87759-0465	87759-0475	4	NA	2.00	5.40	11.50	-	24.00	C
87759-0615 △9	87759-0665	87759-0675	6	NA	4.00	7.20	11.50	-	24.00	C
87759-0815	87759-0865	87759-0875	8	7.90	6.00	8.20	11.50	-	24.00	C
87759-1015	87759-1065	87759-1075	10	9.90	8.00	10.20	11.50	-	24.00	A
87759-1215	87759-1265	87759-1275	12	11.90	10.00	12.20	11.50	-	24.00	A
87759-1415	87759-1465	87759-1475	14	13.90	12.00	14.20	11.50	-	24.00	A
87759-1615	87759-1665	87759-1675	16	15.90	14.00	16.20	14.20	28.40	32.00	B
87759-1815	87759-1865	87759-1875	18	17.90	16.00	18.20	14.20	28.40	32.00	B
87759-2015	87759-2065	87759-2075	20	19.90	18.00	20.20	14.20	28.40	32.00	B
87759-2215	87759-2265	87759-2275	22	21.90	20.00	22.20	20.20	40.40	44.00	B
87759-2415	87759-2465	87759-2475	24	23.90	22.00	24.20	20.20	40.40	44.00	B
87759-2615	87759-2665	87759-2675	26	25.90	24.00	26.20	20.20	40.40	44.00	B
87759-2815	87759-2865	87759-2875	28	27.90	26.00	28.20	20.20	40.40	44.00	B
87759-3015	87759-3065	87759-3075	30	29.90	28.00	30.20	20.20	40.40	44.00	B
87759-3215	87759-3265	87759-3275	32	31.90	30.00	32.20	20.20	40.40	44.00	B
87759-3415	87759-3465	87759-3475	34	33.90	32.00	34.20	26.20	52.40	56.00	B
87759-3615	87759-3665	87759-3675	36	35.90	34.00	36.20	26.20	52.40	56.00	B
87759-3815	87759-3865	87759-3875	38	37.90	36.00	38.20	26.20	52.40	56.00	B
87759-4015	87759-4065	87759-4075	40	39.90	38.00	40.20	26.20	52.40	56.00	B
87759-4215	87759-4265	87759-4275	42	41.90	40.00	42.20	26.20	52.40	56.00	B
87759-4415	87759-4465	87759-4475	44	43.90	42.00	44.20	26.20	52.40	56.00	B
87759-4615	87759-4665	87759-4675	46	45.90	44.00	46.20	26.20	52.40	56.00	B
87759-4815	87759-4865	87759-4875	48	47.90	46.00	48.20	26.20	52.40	56.00	B
87759-5015	87759-5065	87759-5075	50	49.90	48.00	50.20	34.20	68.40	72.00	B

REVISED TUBE SPEC
EC NO: S2007-0829 2007/04/10
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DESCRIPTION
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▼=0
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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: KSEE DATE: 2003/12/17
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TITLE: MGRID, 2MM DUAL ROW HEADER, SMT

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87759-118
SHEET NO.: 4 OF 4
SIZE: A3

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