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**Part Number:** [0511101051](#)  
**Status:** **Active**  
**Overview:** [milligrid](#)  
**Description:** 2.00mm (.079") Pitch, Milli-Grid™ Crimp Housing, 10 Circuits, with Center Polarization Key, without Locking Ramp, Leadfree

**Documents:**

|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| <a href="#">3D Model</a>      | <a href="#">Product Specification PS-51110-001 (PDF)</a> |
| <a href="#">Drawing (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>     |

**Agency Certification**

|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

**General**

|                             |                                      |
|-----------------------------|--------------------------------------|
| Product Family              | Crimp Housings                       |
| Series                      | <a href="#">51110</a>                |
| Comments                    | Applicable Wire Range: AWG #24 - #30 |
| Overview                    | <a href="#">milligrid</a>            |
| Product Literature Order No | 987650-1991                          |
| Product Name                | Milli-Grid™                          |

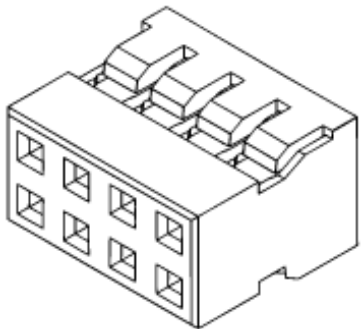
**Physical**

|                               |                 |
|-------------------------------|-----------------|
| Circuits (maximum)            | 10              |
| Color - Resin                 | Black           |
| Flammability                  | 94V-0           |
| Gender                        | Female          |
| Glow-Wire Compliant           | No              |
| Lock to Mating Part           | None            |
| Material - Resin              | Polyester       |
| Number of Rows                | 2               |
| Packaging Type                | Bag             |
| Panel Mount                   | No              |
| Pitch - Mating Interface (in) | 0.079 In        |
| Pitch - Mating Interface (mm) | 2.00 mm         |
| Polarized to Mating Part      | Yes             |
| Stackable                     | Yes             |
| Temperature Range - Operating | -40°C to +105°C |

**Material Info**

**Reference - Drawing Numbers**

|                       |               |
|-----------------------|---------------|
| Product Specification | PS-51110-001  |
| Sales Drawing         | SD-51110-**5* |



*Series  
image - Reference only*

**EU RoHS**

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

**China RoHS**



**Need more information on product  
environmental compliance?**

Email [productcompliance@molex.com](mailto: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**  
[51110Series](#)

**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  
Header, [87833](#) Right Angle, Through Hole  
PCB Header

**Use With**

[50394](#) Crimp Terminals

F

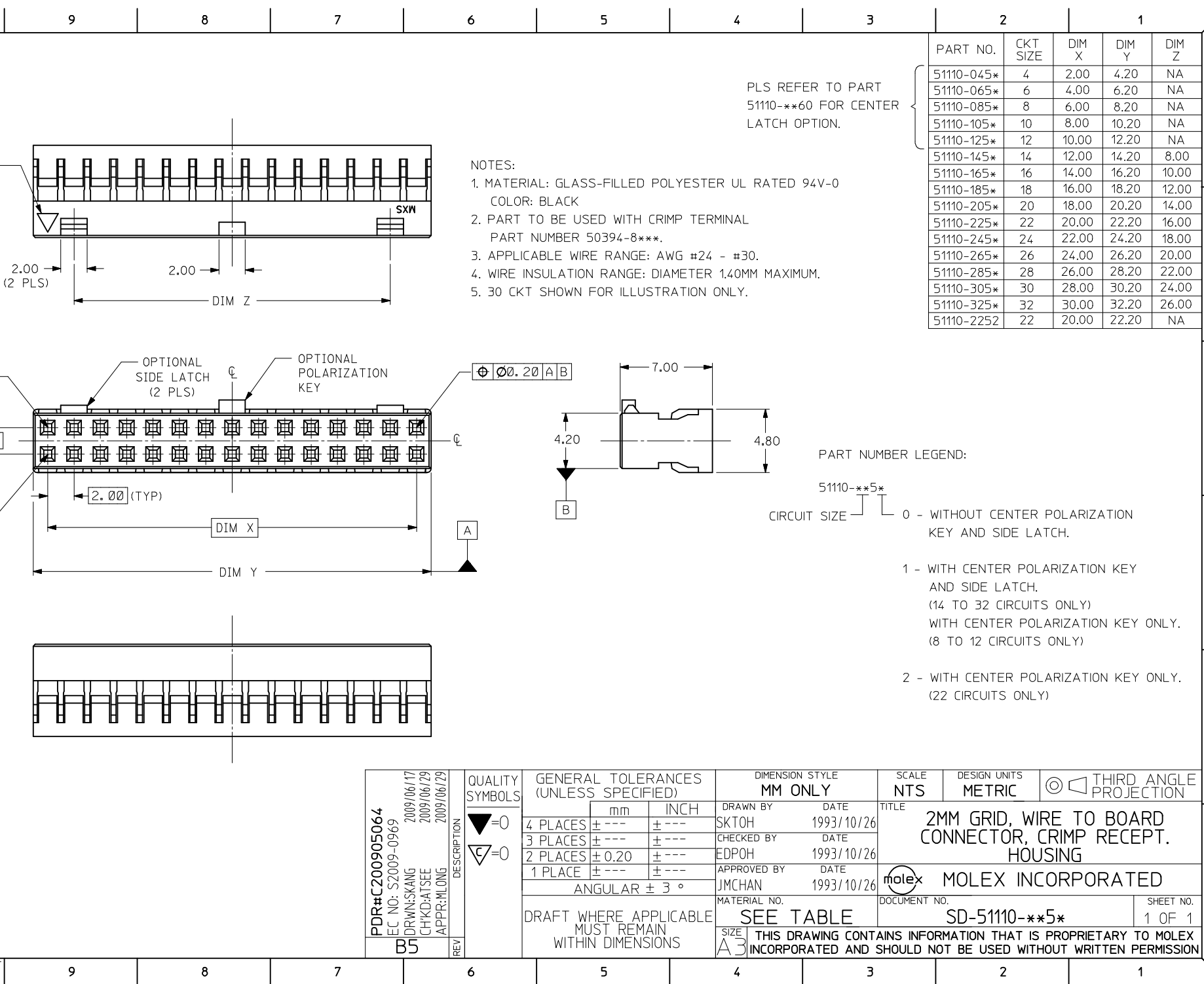
E

D

C

B

A



PLS REFER TO PART  
51110-\*\*-60 FOR CENTER  
LATCH OPTION.

- NOTES:
- 1. MATERIAL: GLASS-FILLED POLYESTER UL RATED 94V-0  
COLOR: BLACK
  - 2. PART TO BE USED WITH CRIMP TERMINAL  
PART NUMBER 50394-8\*\*\*.
  - 3. APPLICABLE WIRE RANGE: AWG #24 - #30.
  - 4. WIRE INSULATION RANGE: DIAMETER 1.40MM MAXIMUM.
  - 5. 30 CKT SHOWN FOR ILLUSTRATION ONLY.

| PART NO.   | CKT<br>SIZE | DIM<br>X | DIM<br>Y | DIM<br>Z |
|------------|-------------|----------|----------|----------|
| 51110-045* | 4           | 2.00     | 4.20     | NA       |
| 51110-065* | 6           | 4.00     | 6.20     | NA       |
| 51110-085* | 8           | 6.00     | 8.20     | NA       |
| 51110-105* | 10          | 8.00     | 10.20    | NA       |
| 51110-125* | 12          | 10.00    | 12.20    | NA       |
| 51110-145* | 14          | 12.00    | 14.20    | 8.00     |
| 51110-165* | 16          | 14.00    | 16.20    | 10.00    |
| 51110-185* | 18          | 16.00    | 18.20    | 12.00    |
| 51110-205* | 20          | 18.00    | 20.20    | 14.00    |
| 51110-225* | 22          | 20.00    | 22.20    | 16.00    |
| 51110-245* | 24          | 22.00    | 24.20    | 18.00    |
| 51110-265* | 26          | 24.00    | 26.20    | 20.00    |
| 51110-285* | 28          | 26.00    | 28.20    | 22.00    |
| 51110-305* | 30          | 28.00    | 30.20    | 24.00    |
| 51110-325* | 32          | 30.00    | 32.20    | 26.00    |
| 51110-2252 | 22          | 20.00    | 22.20    | NA       |

PART NUMBER LEGEND:

- 51110-\*\*-\*\*5\*
- CIRCUIT SIZE
- 0 - WITHOUT CENTER POLARIZATION  
KEY AND SIDE LATCH.
  - 1 - WITH CENTER POLARIZATION KEY  
AND SIDE LATCH.  
(14 TO 32 CIRCUITS ONLY)  
WITH CENTER POLARIZATION KEY ONLY.  
(8 TO 12 CIRCUITS ONLY)
  - 2 - WITH CENTER POLARIZATION KEY ONLY.  
(22 CIRCUITS ONLY)

|                                                                                     |                                        |                                                                                                                                  |                                      |                                          |        |                            |                          |                                                                         |                        |                           |                    |
|-------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------|--------|----------------------------|--------------------------|-------------------------------------------------------------------------|------------------------|---------------------------|--------------------|
| PDR#C200905064<br>EC NO: S2009-0969<br>DRWN:SKANG<br>CHKD:ATSEE<br>APPR:MLONG<br>B5 | 2009/06/17<br>2009/06/29<br>2009/06/29 | DESCRIPTION<br>REV                                                                                                               | QUALITY<br>SYMBOLS<br><br>▽=0<br>◻=0 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |        | DIMENSION STYLE<br>MM ONLY |                          | SCALE<br>NTS                                                            | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |                    |
|                                                                                     |                                        |                                                                                                                                  |                                      | mm                                       | INCH   | DRAWN BY<br>SKTOH          | DATE<br>1993/10/26       | TITLE<br>2MM GRID, WIRE TO BOARD<br>CONNECTOR, CRIMP RECEPT.<br>HOUSING |                        |                           |                    |
|                                                                                     |                                        |                                                                                                                                  |                                      | 4 PLACES                                 | ± ---  | ± ---                      | CHECKED BY<br>EDPOH      |                                                                         |                        |                           | DATE<br>1993/10/26 |
|                                                                                     |                                        |                                                                                                                                  |                                      | 3 PLACES                                 | ± ---  | ± ---                      | APPROVED BY<br>JMCHAN    |                                                                         |                        |                           | DATE<br>1993/10/26 |
|                                                                                     |                                        |                                                                                                                                  |                                      | 2 PLACES                                 | ± 0.20 | ± ---                      | MOLEX MOLEX INCORPORATED |                                                                         |                        |                           |                    |
|                                                                                     |                                        |                                                                                                                                  |                                      | 1 PLACE                                  | ± ---  | ± ---                      | MATERIAL NO.             |                                                                         | DOCUMENT NO.           | SHEET NO.                 |                    |
|                                                                                     |                                        |                                                                                                                                  |                                      | ANGULAR ± 3 °                            |        | SEE TABLE                  |                          | SD-51110-**5*                                                           |                        | 1 OF 1                    |                    |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                          |                                        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                      |                                          |        |                            |                          |                                                                         |                        |                           |                    |