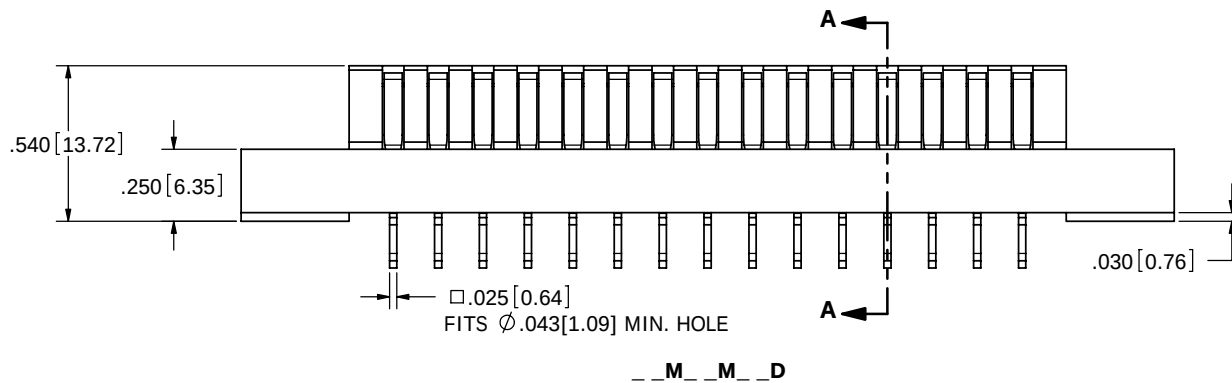
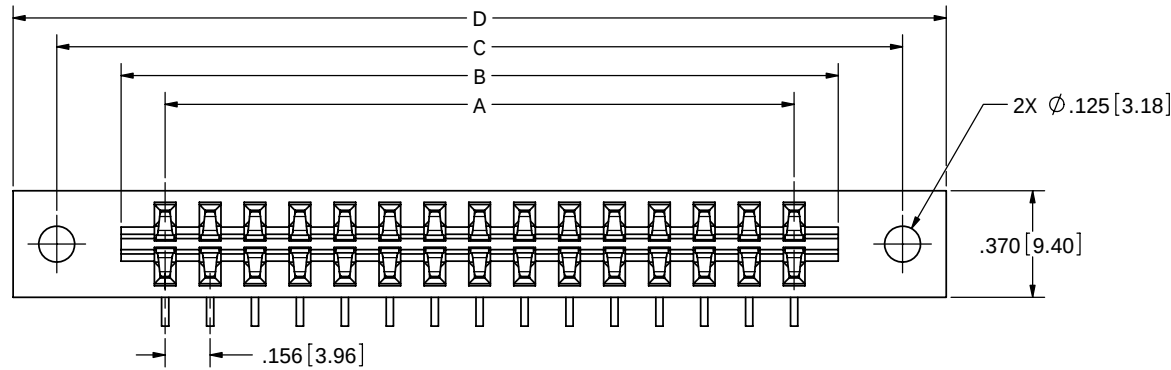


| REVISIONS |         |                 |           |    |
|-----------|---------|-----------------|-----------|----|
| REV.      | ECO. NO | DESCRIPTION     | DATE      | BY |
| A         | 1635    | INITIAL RELEASE | 3/14/2008 | VJ |



(.025 [0.64]) DEPTH  
FROM TOP OF INSULATOR  
TO TOP OF PIN

FITS EDGECARDS THAT  
ACCEPT .062 [1.57] PCB'S

MA = .100 ± .025 [2.54 ± 0.64]  
MV = .130 ± .025 [3.30 ± 0.64]  
MB = .180 ± .025 [4.57 ± 0.64]  
MD = .250 ± .025 [6.35 ± 0.64]  
MJ = .500 ± .025 [12.70 ± 0.64]  
MK = .560 ± .025 [14.22 ± 0.64]

STD = .150 [3.81] ROW SPACING  
S189 = .200 [5.08] ROW SPACING

SECTION A-A

#### NOTES:

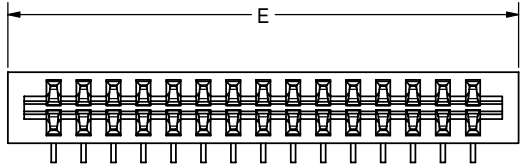
1. INSULATOR MATERIAL: SEE PART NUMBER CODING.
2. CONTACT MATERIAL: SEE PART NUMBER CODING.
3. PLATING: SEE PART NUMBER CODING.
4. TEMPERATURE: SEE PART NUMBER CODING.
5. PROCESSING TEMP: SEE PART NUMBER CODING.
6. UL FLAMMABILITY RATING: 94V-0.
7. VOLTAGE RATING: 600 VDC MINIMUM AT SEA LEVEL.
8. CURRENT RATING: 3 AMP PER CONTACT.
9. VOLTAGE DROP: 30 MILLI VOLT AT RATED CURRENT.
10. INSULATION RESISTANCE: 5000 MEGA OHMS.
11. CONNECTOR IDENTIFICATION: THE PART SHALL BE MARKED WITH A PART NUMBER AND BARCODE.



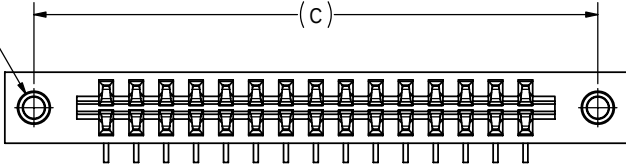
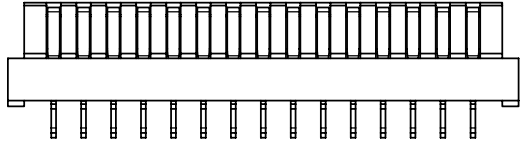
RoHS COMPLIANT

## CUSTOMER COPY

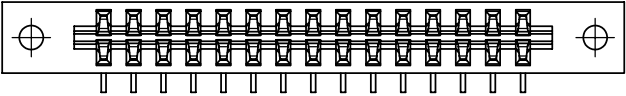
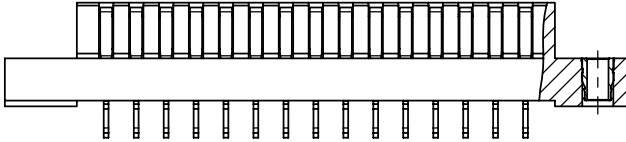
|                                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                              |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| UNLESS OTHERWISE SPECIFIED:<br>DIMENSIONS ARE IN INCHES[MM]                                                                                                                                                                                                     |  | DATE                                                                                                                                                                                         | NAME    |
| TOLERANCES:<br>ANGULAR: ± 1°<br>XX = ± .02 [508]<br>.XXX = ± .005 [1270]<br>.XXXX = ± .0005 [0127]<br>PARENTHEetical INFORMATION IS FOR<br>REFERENCE ONLY                                                                                                       |  | 3/14/2008                                                                                                                                                                                    | V. JARA |
| THE INFORMATION HEREIN CONTAINS<br>PROPRIETARY INFORMATION OF<br>SULLINS ELECTRONICS AND IS NOT<br>TO BE REPRODUCED, USED OR<br>DISCLOSED TO OTHERS FOR ANY<br>PURPOSE EXCEPT AS SPECIFICALLY<br>AUTHORIZED IN WRITING BY AN<br>OFFICER OF SULLINS ELECTRONICS. |  | <b>SULLINS<br/>ELECTRONICS</b><br>DESCRIPTION<br><b>MALE, RIGHT ANGLE BEND, .156 CC</b><br>PART NUMBER<br><b>M M = (MA,MV,MB,MD,MJ,MK)</b><br>SIZE DWG. NO.<br><b>C C11076</b><br>SCALE: 3:1 |         |
| INTERPRET DIMENSIONS AND GEOMETRIC<br>TOLERANCING<br>PER: ANSI Y14.5-1984                                                                                                                                                                                       |  | SHEET 1 OF 3<br>REV A                                                                                                                                                                        |         |



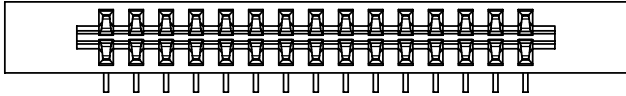
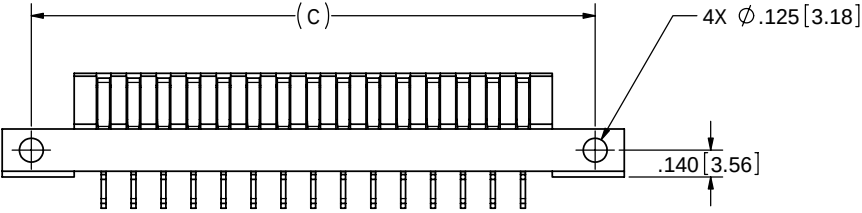
\_M\_M\_N



\_M\_M\_T



\_M\_M\_Z



\_M\_M\_V

2X #4-40  
THREADED  
INSERTS

2X #4-40  
THREADED  
INSERTS

CUSTOMER COPY



RoHS COMPLIANT

|                                                                                                                                                                                                                                                                                                          |  |  |                                                |                   |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|------------------------------------------------|-------------------|-----------------|
| UNLESS OTHERWISE SPECIFIED:<br>DIMENSIONS ARE IN INCHES[MM]<br>TOLERANCES:<br>ANGULAR: ± 1°<br>XX= ± .02 [.508]<br>.XXX= ± .005 [.1270]<br>.XXXX= ± .0005 [.0127]<br>PARENTHETICAL INFORMATION IS FOR<br>REFERENCE ONLY<br><br>INTERPRET DIMENSIONS AND GEOMETRIC<br>TOLERANCING<br>PER: ANSI Y14.5-1984 |  |  | DRAWN<br>3/14/2008<br>V. JARA                  | DATE<br>3/14/2008 | NAME<br>V. JARA |
| THE INFORMATION HEREIN CONTAINS<br>PROPRIETARY INFORMATION OF<br>SULLINS ELECTRONICS AND IS NOT<br>TO BE REPRODUCED, USED OR<br>DISCLOSED TO OTHERS FOR ANY<br>PURPOSE EXCEPT AS SPECIFICALLY<br>AUTHORIZED IN WRITING BY AN<br>OFFICER OF SULLINS ELECTRONICS.                                          |  |  | DESCRIPTION<br>MALE, RIGHT ANGLE BEND, .156 CC |                   |                 |
| PART NUMBER<br>M_M_(MA,MV,MB,MD,MJ,MK)                                                                                                                                                                                                                                                                   |  |  | SIZE<br>C                                      |                   |                 |
| DWG. NO.<br>C11076                                                                                                                                                                                                                                                                                       |  |  | REV<br>A                                       |                   |                 |
| SCALE: 2:1                                                                                                                                                                                                                                                                                               |  |  | SHEET 2 OF 3                                   |                   |                 |

| PART NUMBER | NO. OF POS. | A ±.008[0.20] |        | B ±.008[0.20] |        | C ±.010[0.25] |        | D ±.020[0.51] |        | *E ±.020[0.51] |        |
|-------------|-------------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|----------------|--------|
|             |             | IN            | MM     | IN            | MM     | IN            | MM     | IN            | MM     | IN             | MM     |
| M04M        | 4           | 0.468         | 11.89  | 0.774         | 19.66  | 1.221         | 31.01  | 1.524         | 38.71  | 0.944          | 23.98  |
| M05M        | 5           | 0.624         | 15.85  | 0.930         | 23.62  | 1.377         | 34.98  | 1.680         | 42.67  | 1.100          | 27.94  |
| M06M        | 6           | 0.780         | 19.81  | 1.086         | 27.58  | 1.533         | 38.94  | 1.836         | 46.63  | 1.256          | 31.90  |
| M07M        | 7           | 0.936         | 23.77  | 1.242         | 31.55  | 1.689         | 42.90  | 1.992         | 50.60  | 1.412          | 35.86  |
| M08M        | 8           | 1.092         | 27.74  | 1.398         | 35.51  | 1.845         | 46.86  | 2.148         | 54.56  | 1.568          | 39.83  |
| M09M        | 9           | 1.248         | 31.70  | 1.554         | 39.47  | 2.001         | 50.83  | 2.304         | 58.52  | 1.724          | 43.79  |
| M10M        | 10          | 1.404         | 35.66  | 1.710         | 43.43  | 2.157         | 54.79  | 2.460         | 62.48  | 1.880          | 47.75  |
| M11M        | 11          | 1.560         | 39.62  | 1.866         | 47.40  | 2.313         | 58.75  | 2.616         | 66.45  | 2.036          | 51.71  |
| M12M        | 12          | 1.716         | 43.59  | 2.022         | 51.36  | 2.469         | 62.71  | 2.772         | 70.41  | 2.192          | 55.68  |
| M13M        | 13          | 1.872         | 47.55  | 2.178         | 55.32  | 2.625         | 66.68  | 2.928         | 74.37  | 2.348          | 59.64  |
| M14M        | 14          | 2.028         | 51.51  | 2.334         | 59.28  | 2.781         | 70.64  | 3.084         | 78.33  | 2.504          | 63.60  |
| M15M        | 15          | 2.184         | 55.47  | 2.490         | 63.25  | 2.937         | 74.60  | 3.240         | 82.30  | 2.660          | 67.56  |
| M16M        | 16          | 2.340         | 59.44  | 2.646         | 67.21  | 3.093         | 78.56  | 3.396         | 86.26  | 2.816          | 71.53  |
| M17M        | 17          | 2.496         | 63.40  | 2.802         | 71.17  | 3.249         | 82.52  | 3.552         | 90.22  | 2.972          | 75.49  |
| M18M        | 18          | 2.652         | 67.36  | 2.958         | 75.13  | 3.405         | 86.49  | 3.708         | 94.18  | 3.128          | 79.45  |
| M19M        | 19          | 2.808         | 71.32  | 3.114         | 79.10  | 3.561         | 90.45  | 3.864         | 98.15  | 3.284          | 83.41  |
| M20M        | 20          | 2.964         | 75.29  | 3.270         | 83.06  | 3.717         | 94.41  | 4.020         | 102.11 | 3.440          | 87.38  |
| M21M        | 21          | 3.120         | 79.25  | 3.426         | 87.02  | 3.873         | 98.37  | 4.176         | 106.07 | 3.596          | 91.34  |
| M22M        | 22          | 3.276         | 83.21  | 3.582         | 90.98  | 4.029         | 102.34 | 4.332         | 110.03 | 3.752          | 95.30  |
| M23M        | 23          | 3.432         | 87.17  | 3.738         | 94.95  | 4.185         | 106.30 | 4.488         | 114.00 | 3.908          | 99.26  |
| M24M        | 24          | 3.588         | 91.14  | 3.894         | 98.91  | 4.341         | 110.26 | 4.644         | 117.96 | 4.064          | 103.23 |
| M25M        | 25          | 3.744         | 95.10  | 4.050         | 102.87 | 4.497         | 114.22 | 4.800         | 121.92 | 4.220          | 107.19 |
| M26M        | 26          | 3.900         | 99.06  | 4.206         | 106.83 | 4.653         | 118.19 | 4.956         | 125.88 | 4.376          | 111.15 |
| M27M        | 27          | 4.056         | 103.02 | 4.362         | 110.79 | 4.809         | 122.15 | 5.112         | 129.84 | 4.532          | 115.11 |
| M28M        | 28          | 4.212         | 106.98 | 4.518         | 114.76 | 4.965         | 126.11 | 5.268         | 133.81 | 4.688          | 119.08 |
| M29M        | 29          | 4.368         | 110.95 | 4.674         | 118.72 | 5.121         | 130.07 | 5.424         | 137.77 | 4.844          | 123.04 |
| M30M        | 30          | 4.524         | 114.91 | 4.830         | 122.68 | 5.277         | 134.04 | 5.580         | 141.73 | 5.000          | 127.00 |
| M31M        | 31          | 4.680         | 118.87 | 4.986         | 126.64 | 5.433         | 138.00 | 5.736         | 145.69 | 5.156          | 130.96 |
| M32M        | 32          | 4.836         | 122.83 | 5.142         | 130.61 | 5.589         | 141.96 | 5.892         | 149.66 | 5.312          | 134.92 |
| M33M        | 33          | 4.992         | 126.80 | 5.298         | 134.57 | 5.745         | 145.92 | 6.048         | 153.62 | 5.468          | 138.89 |
| M34M        | 34          | 5.148         | 130.76 | 5.454         | 138.53 | 5.901         | 149.89 | 6.204         | 157.58 | 5.624          | 142.85 |
| M35M        | 35          | 5.304         | 134.72 | 5.610         | 142.49 | 6.057         | 153.85 | 6.360         | 161.54 | 5.780          | 146.81 |
| M36M        | 36          | 5.460         | 138.68 | 5.766         | 146.46 | 6.213         | 157.81 | 6.516         | 165.51 | 5.936          | 150.77 |
| M37M *      | 37          | 5.616         | 142.65 | 5.922         | 150.42 |               |        |               |        | 6.092          | 154.74 |
| M38M *      | 38          | 5.772         | 146.61 | 6.078         | 154.38 |               |        |               |        | 6.248          | 158.70 |
| M39M *      | 39          | 5.928         | 150.57 | 6.234         | 158.34 |               |        |               |        | 6.404          | 162.66 |
| M40M *      | 40          | 6.084         | 154.53 | 6.390         | 162.31 |               |        |               |        | 6.560          | 166.62 |

\*\*N' MTG ONLY

PART NUMBER CODING

--- M --- M --- - S ---

MATERIAL (INSULATOR/CONTACT)

E = PBT/PHOSPHOR BRONZE

OPERATING TEMP: -65°C TO +125°C

PROCESSING TEMP: 260°C FOR 10 SECS MAX

G = PA9T/PHOSPHOR BRONZE

OPERATING TEMP: -65°C TO +125°C

PROCESSING TEMP: 260°C FOR 120 SECS MAX

(CONSULT FACTORY FOR OTHER MATERIALS)

PLATING

ALL PLATINGS ARE LEAD FREE AND HAVE .000050" NICKEL UNDERPLATE

CONTACT SURFACE

B = .000010" GOLD

C = .000030" GOLD

Y = .000030" GOLD

TERMINATION

.000100" PURE TIN, MATTE

.000100" PURE TIN, MATTE

.000005" GOLD

OMIT FOR STANDARD

S189 = .200[5.08] ROW SPACING

MOUNTING STYLE

D = FLUSH .125" DIA. CLEARANCE HOLES (PAGE 1)

N = NO MOUNTING EARS (PAGE 2)

Z = FLUSH .125" DIA. SIDE MOUNTING (PAGE 2)

T = FLUSH, #4-40 THREADED INSERT (PAGE 2)

V = FLUSH, SIDE MOUNT #4-40 THREADED INSERT (PAGE 2)

TERMINATION

MA = RIGHT ANGLE, .100[2.54] TAIL LENGTH

MV = RIGHT ANGLE, .130[3.30] TAIL LENGTH

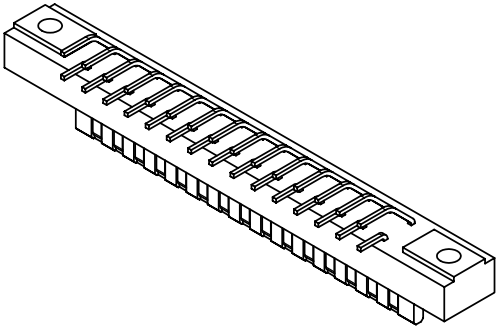
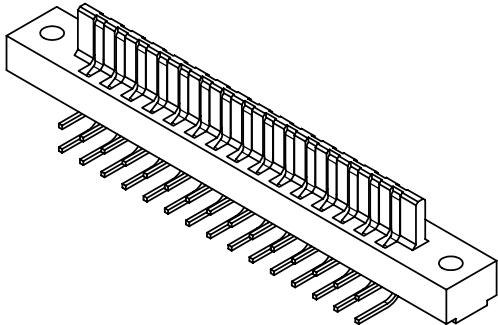
MB = RIGHT ANGLE, .180[4.57] TAIL LENGTH

MD = RIGHT ANGLE, .250[6.35] TAIL LENGTH

MJ = RIGHT ANGLE, .500[12.70] TAIL LENGTH

MK = RIGHT ANGLE, .560[14.22] TAIL LENGTH

NUMBER OF POSITIONS  
(CONTACTS PER ROW)



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|                                                                                                                                                                                                                                                                 |  |          |  |                   |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------|--|-------------------|--|
| UNLESS OTHERWISE SPECIFIED:<br>DIMENSIONS ARE IN INCHES[MM]                                                                                                                                                                                                     |  | DATE     |  | NAME              |  |
| TOLERANCES:<br>ANGULAR: ± 1°<br>.XX = ± .02 [508]<br>.XXX = ± .005 [127]<br>.XXXX = ± .0005 [0.127]<br>PARENTHEICAL INFORMATION IS FOR<br>REFERENCE ONLY                                                                                                        |  | DRAWN    |  | 3/14/2008 V. JARA |  |
| THE INFORMATION HEREIN CONTAINS<br>PROPRIETARY INFORMATION OF<br>SULLINS ELECTRONICS AND IS NOT<br>TO BE REPRODUCED, USED OR<br>DISCLOSED TO OTHERS FOR ANY<br>PURPOSE EXCEPT AS SPECIFICALLY<br>AUTHORIZED IN WRITING BY AN<br>OFFICER OF SULLINS ELECTRONICS. |  |          |  |                   |  |
| DESCRIPTION<br>MALE, RIGHT ANGLE BEND, .156 CC                                                                                                                                                                                                                  |  |          |  |                   |  |
| PART NUMBER                                                                                                                                                                                                                                                     |  |          |  |                   |  |
| - M M - - (MA, MV, MB, MD, MJ, MK)                                                                                                                                                                                                                              |  |          |  |                   |  |
| SIZE                                                                                                                                                                                                                                                            |  | DWG. NO. |  | REV               |  |
| C                                                                                                                                                                                                                                                               |  | C11076   |  | A                 |  |
| SCALE: 2:1                                                                                                                                                                                                                                                      |  |          |  |                   |  |
| SHEET 3 OF 3                                                                                                                                                                                                                                                    |  |          |  |                   |  |