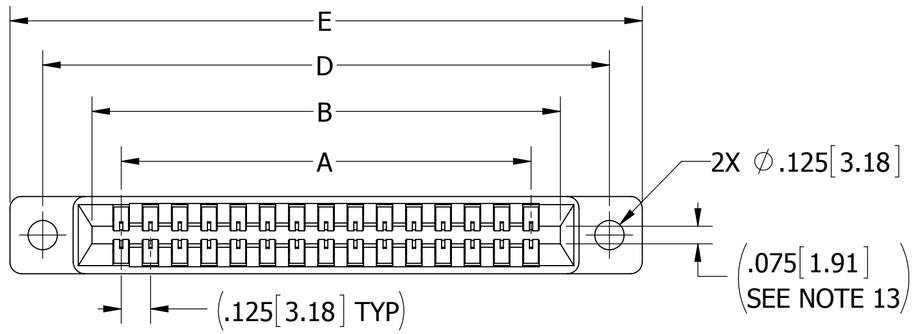
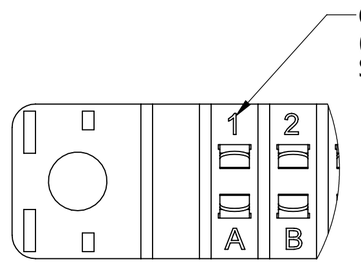
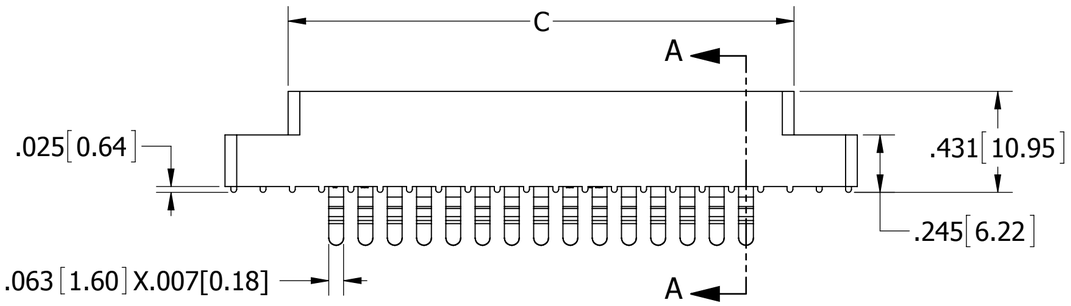
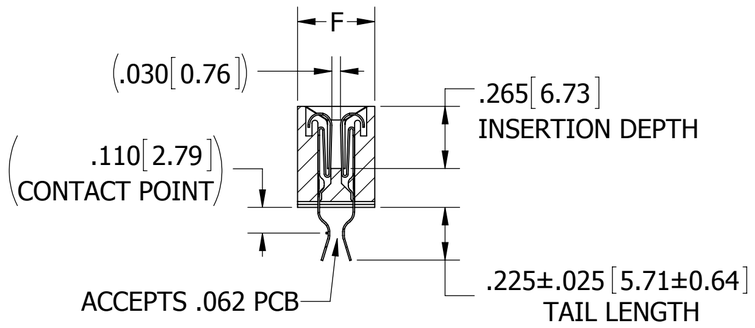
| REVISIONS | | | | |
|---|---|---|---|---|
| REV. | ECO. NO | DESCRIPTION | DATE | BY |
| A | 2796 | INITIAL RELEASE | 7/1/2013 | JH |




DETAIL CONTACT
SCALE 4 : 1




**SECTION A-A**

**MP_ _ - _ 125 - _ _ - DSE - 1_ _ _**

NOTES:
1. INSULATOR MATERIAL: SEE PART NUMBER CODING
2. CONTACT MATERIAL: SEE PART NUMBER CODING
3. PLATING: SEE PART NUMBER CODING
4. OPERATING TEMPERATURE: SEE PART NUMBER CODING
5. PROCESSING TEMP: SEE PART NUMBER CODING
6. UL FLAMMABILITY RATING: 94V-0
7. OPERATING VOLTAGE: 750 VAC MINIMUM AT SEA LEVEL
8. CURRENT RATING: 3 AMP
9. CONTACT RESISTANCE: 30 MILLI OHMS MAX
10. INSULATION RESISTANCE: 5000 MEGA OHMS
11. DURABILITY: 500 CYCLES MIN
12. CONNECTOR IDENTIFICATION: THE PART SHALL BE MARKED WITH A PART NUMBER AND LOT CODE
13. BOARD THICKNESS ACCOMMODATED: .062±.008[1.57±0.20]
14. INSERTION FORCE: 16 OZ MAX PER CONTACT PAIR WHEN USING A .062[1.57] TEST BLADE
    INTERNAL INSPECTION TO BE PER SULLIN'S WORK INSTRUCTION WI7.3-01
15. WITHDRAWAL FORCE: 1 OZ MIN PER CONTACT PAIR USING .062[1.57] PCB
16. MODIFICATION: CARD EXTENDER BEND FOR LOW PROFILE CONNECTOR,
    .055" INSIDE DIMENSION FOR .062" PCB

RoHS COMPLIANT

REFERENCE: _ _ A_ _DRV_-P13, P39, P71

**CUSTOMER COPY**

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES [MM]

TOLERANCES:

ANGULAR: ± 1°

DECIMALS
.XX=± .02 [.5]
.XXX=± .005 [.13]
.XXXX=± .0005 [.013]

| DRAWN | DATE | NAME |
|---|---|---|
| | 6/24/2011 | JH |

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SULLINS CONNECTOR SOLUTIONS

TITLE: CARD EDGE, .125 CC LP

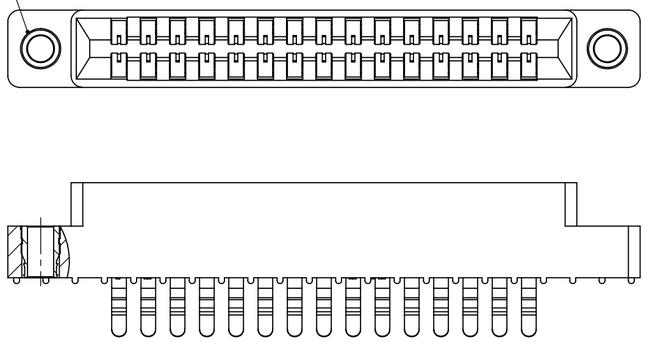
PART NUMBER: MP_ _-125-_ _-DSE-_ _ _ _

| SIZE | CAGE CODE | DWG. NO. | REV |
|---|---|---|---|
| C | 54453 | C12239 | A |

SCALE: 2:1 SHEET 1 OF 3

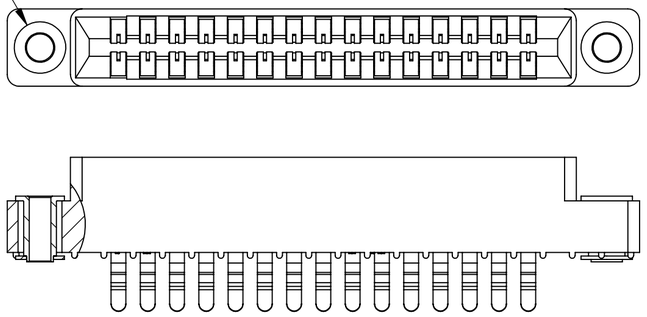
FILE NAME: C12239, MP_ _-125-_ _-DSE-_ _ _ _, REF _ _A_ _DRV_-P13, P39, P71

2X #4-40
THREADED
INSERT

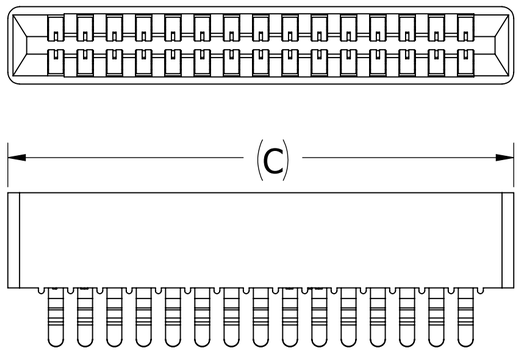


**MP_ _ - _ 125 - _ _ - DSE - 2_ _ _**

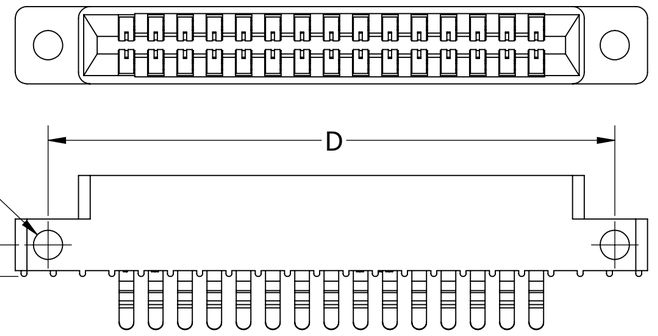
2X FLOATING ROBBIN
.116[2.95] CLEARANCE
FOR #4 SCREW



**MP_ _ - _ 125 - _ _ - DSE - 3_ _ _**




**MP_ _ - _ 125 - _ _ - DSE - 4_ _ _**




**MP_ _ - _ 125 - _ _ - DSE - 8_ _ _**

# CUSTOMER COPY

RoHS COMPLIANT

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES [MM]

TOLERANCES:

ANGULAR: ± 1°

DECIMALS
.XX=± .02 [.5]
.XXX=± .005 [.13]
.XXXX=± .0005 [.013]

| DRAWN | DATE | NAME |
|---|---|---|
| | 6/24/2011 | JH |

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SULLINS CONNECTOR SOLUTIONS

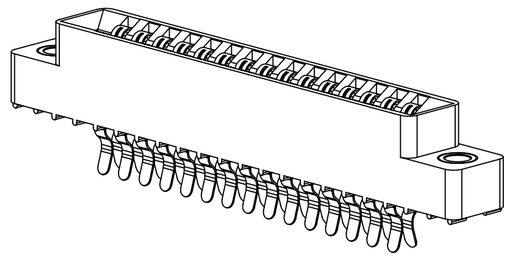
TITLE: CARD EDGE, .125 CC LP

PART NUMBER: MP_ _-125-_ _-DSE-_ _ _ _

| SIZE | CAGE CODE | DWG. NO. | REV |
|---|---|---|---|
| C | 54453 | C12239 | A |

SCALE: 2:1 SHEET 2 OF 3

| PART NUMBER MICRO PLASTICS | NO. OF POS. | A±.008[0.20] | | B±.008[0.20] | | C±.015[0.38] | | D±.010[0.25] | | E±.020[0.51] | | F+.005[0.13]/-.015[0.38] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | IN | MM | IN | MM | IN | MM | IN | MM | IN | MM | IN | MM |
| MP_ _-_125-06-DSE-_ _ _ _ | 6 | 0.625 | 15.88 | 0.875 | 22.23 | 1.035 | 26.29 | 1.295 | 32.89 | 1.575 | 40.01 | 0.330 | 8.38 |
| MP_ _-_125-10-DSE-_ _ _ _ | 10 | 1.125 | 28.58 | 1.375 | 34.93 | 1.535 | 38.99 | 1.795 | 45.59 | 2.075 | 52.71 | | |
| MP_ _-_125-14-DSE-_ _ _ _ | 14 | 1.625 | 41.28 | 1.875 | 47.63 | 2.035 | 51.69 | 2.295 | 58.29 | 2.575 | 65.41 | | |
| MP_ _-_125-15-DSE-_ _ _ _ | 15 | 1.750 | 44.45 | 2.000 | 50.80 | 2.160 | 54.86 | 2.420 | 61.47 | 2.700 | 68.58 | | |
| MP_ _-_125-18-DSE-_ _ _ _ | 18 | 2.125 | 53.98 | 2.375 | 60.33 | 2.535 | 64.39 | 2.795 | 70.99 | 3.075 | 78.11 | | |
| MP_ _-_125-22-DSE-_ _ _ _ | 22 | 2.625 | 66.68 | 2.875 | 73.03 | 3.035 | 77.09 | 3.295 | 83.69 | 3.575 | 90.81 | | |
| MP_ _-_125-28-DSE-_ _ _ _ | 28 | 3.375 | 85.73 | 3.625 | 92.08 | 3.785 | 96.14 | 4.045 | 102.74 | 4.325 | 109.86 | | |
| MP_ _-_125-30-DSE-_ _ _ _ | 30 | 3.625 | 92.08 | 3.875 | 98.43 | 4.035 | 102.49 | 4.295 | 109.09 | 4.575 | 116.21 | | |
| MP_ _-_125-31-DSE-_ _ _ _ | 31 | 3.750 | 95.25 | 4.000 | 101.60 | 4.160 | 105.66 | 4.420 | 112.27 | 4.700 | 119.38 | | |
| MP_ _-_125-35-DSE-_ _ _ _ | 35 | 4.250 | 107.95 | 4.500 | 114.30 | 4.660 | 118.36 | 4.920 | 124.97 | 5.200 | 132.08 | | |
| MP_ _-_125-36-DSE-_ _ _ _ | 36 | 4.375 | 111.13 | 4.625 | 117.48 | 4.785 | 121.54 | 5.045 | 128.14 | 5.325 | 135.26 | | |
| MP_ _-_125-37-DSE-_ _ _ _ | 37 | 4.500 | 114.30 | 4.750 | 120.65 | 4.910 | 124.71 | 5.170 | 131.32 | 5.450 | 138.43 | | |
| MP_ _-_125-40-DSE-_ _ _ _ | 40 | 4.875 | 123.83 | 5.125 | 130.18 | 5.285 | 134.24 | 5.545 | 140.84 | 5.825 | 147.96 | 0.370 | 9.40 |
| MP_ _-_125-43-DSE-_ _ _ _ | 43 | 5.250 | 133.35 | 5.500 | 139.70 | 5.660 | 143.76 | 5.920 | 150.37 | 6.200 | 157.48 | | |
| MP_ _-_125-44-DSE-_ _ _ _ | 44 | 5.375 | 136.53 | 5.625 | 142.88 | 5.785 | 146.94 | 6.045 | 153.54 | 6.325 | 160.66 | | |
| MP_ _-_125-49-DSE-_ _ _ _ | 49 | 6.000 | 152.40 | 6.250 | 158.75 | 6.410 | 162.81 | 6.670 | 169.42 | 6.950 | 176.53 | | |
| MP_ _-_125-50-DSE-_ _ _ _ | 50 | 6.125 | 155.58 | 6.375 | 161.93 | 6.535 | 165.99 | 6.795 | 172.59 | 7.075 | 179.71 | | |



## PART NUMBER CODING

**MP_ _ - _ 125 - _ _ - DSE - _ _ _ _**

**CONTACT MATERIAL**
OMIT= PHOSPHOR BRONZE (SEE TABLE 2)
Y= BERYLLIUM COPPER (SEE TABLE 3)

**PLATING MODIFICATION CODE** (SEE TABLE 1)

**MOUNTING STYLE**
1= .125" DIA. CLEARANCE HOLES
2= #4-40 THREADED INSERT
3= FLOATING BOBBIN
4= NO MOUNTING EARS
8= .125" DIA. SIDE HOLES

**NUMBER OF POSITIONS**

**INSULATOR MATERIAL**
0= PBT, BLUE
2= PBT, GREEN
3= PBT, BLACK
1= PPS, BROWN
5= PPS, BLACK
6= PPS, GREEN
7= PPS, BROWN

**PLATING** (SEE TABLE 1)

**TABLE 1 (PLATING):**
ALL PLATINGS HAVE .000050" MIN NICKEL UNDERPLATE

| | CONTACT SURFACE | TERMINATION | PLATING MODIFICATION CODE |
|---|---|---|---|
| MP | .000010" GOLD OVERALL | | OMIT |
| | .000030" GOLD | .000010" GOLD OVERALL | G |
| MPSL | .000010" GOLD | .000100" PURE TIN, MATTE | K |
| | .000030" GOLD | .000100" PURE TIN, MATTE | GK |
| MPL | .000100" PURE TIN, MATTE OVERALL | | K |

(MPL PLATING AVAILABLE WITH PHOSPHOR BRONZE CONTACTS ONLY)

**TABLE 2 (PHOSPHOR BRONZE CONTACTS):**

| INSULATOR MATERIAL CODE | OPERATING TEMPERATURE | PROCESSING TEMPERATURE |
|---|---|---|
| 0, 2, 3 | -65°C TO +125°C | MANUAL SOLDERING |
| 1, 5, 6, 7 | -65°C TO +125°C | 260°C FOR 120 SEC MAX |

**TABLE 3 (BERYLLIUM COPPER CONTACTS):**

| INSULATOR MATERIAL CODE | OPERATING TEMPERATURE | PROCESSING TEMPERATURE |
|---|---|---|
| 0, 2, 3 | -65°C TO +125°C | MANUAL SOLDERING |
| 1, 5, 6, 7 | -65°C TO +150°C | 260°C FOR 120 SEC MAX |

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RoHS COMPLIANT

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DIMENSIONS ARE IN INCHES [MM]

TOLERANCES:

ANGULAR: ± 1°

DECIMALS
.XX=± .02 [.5]
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| DRAWN | DATE | NAME |
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SULLINS CONNECTOR SOLUTIONS

TITLE: CARD EDGE, .125 CC LP

PART NUMBER: MP_ _-125-_ _-DSE-_ _ _ _

| SIZE | CAGE CODE | DWG. NO. | REV |
|---|---|---|---|
| C | 54453 | C12239 | A |

SCALE: 2:1 SHEET 3 OF 3