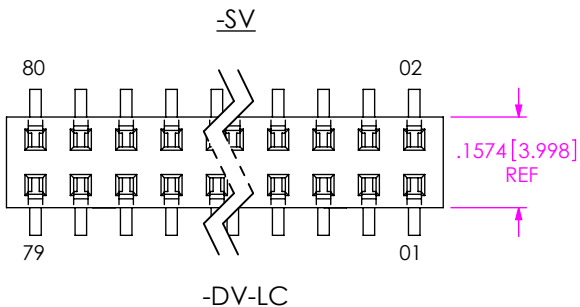
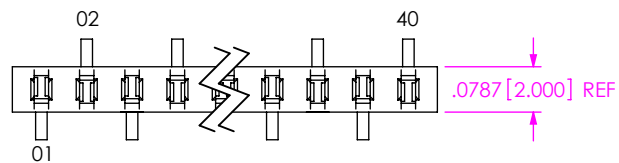


DO NOT SCALE FROM THIS PRINT



NO OF POSITIONS

-02 THRU -40
(PER ROW)

LEAD STYLE

-02: SURFACE MOUNT

PLATING SPECIFICATION

- S: 30µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN TAIL
- L: 10µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN TAIL
- F: 3µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN TAIL
- ** -T: MATTE TIN OVER ENTIRE CONTACT
- LT: 10µ" SELECTIVE GOLD IN CONTACT AREA, TIN LEAD (90/10 ±5%) TAIL
- SM: 30µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN TAIL
- LM: 10µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN TAIL
- FM: 3µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN TAIL
- ** -TM: MATTE TIN OVER ENTIRE CONTACT
- H: 30µ" GOLD IN CONTACT AREA, 3µ" GOLD ON TAIL

PACKAGING

- BLANK: TUBES (SEE NOTE 13)
- TR: TAPE & REEL (SEE NOTES 14 & 15) (SEE FIG 8, SHT 4) (AVAILABLE ON 2-36 POS ONLY)
- FR: FULL REEL QTY TAPE & REEL (SEE NOTES 14 & 15) (SEE FIG 8, SHT 4) (AVAILABLE ON 2-36 POS ONLY)

PICK & PLACE PAD

- P: PICK & PLACE PAD (ONLY AVAILABLE ON -SV & -DV, 4 POS MIN) (-SV: USE PPP-09; -DV: USE PPP-03; SEE FIG 5, SHT 3)
- M: METAL PICK & PLACE PAD (ONLY AVAILABLE ON -DV) (USE LMP-03, SEE FIG 7, SHT 3)
- K: POLYIMIDE FILM PAD (AVAILABLE ON 3 POS MIN, FOR -SV USE K-DOT-.118-.219-.005, FOR -DV USE K-DOT-.217-.313-.005) (SEE FIG 6, SHT 3)

POLARIZING OPTION

-XX INDICATES POSITION No (USE PK-02-N)

OPTION

- LC: LOCKING CLIP (NOT AVAILABLE ON -SV) (USE LC-06-TM, SEE FIG 1, FIG 2 & 3, SHT 2 & NOTES 6 & 7)
- A: MOLDED ALIGNMENT PIN (AVAILABLE ON -DV ONLY) (USE MMS-XX-D-VXX, SEE FIG 4, SHT 3)

ENTRY/ROW SPECIFICATION

- SH: SINGLE ROW, HORIZONTAL ENTRY
- DH: DOUBLE ROW, HORIZONTAL ENTRY
- SV: SINGLE ROW, VERTICAL (TOP) ENTRY
- DV: DOUBLE ROW, VERTICAL (TOP) ENTRY

** = AVAILABLE TO EXISTING CUSTOMERS ONLY

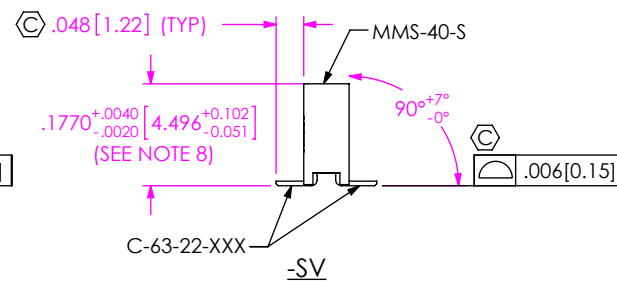
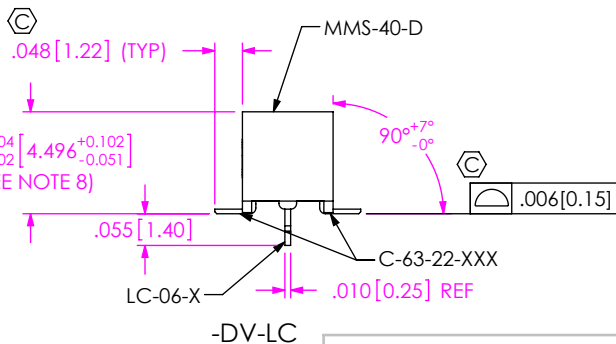
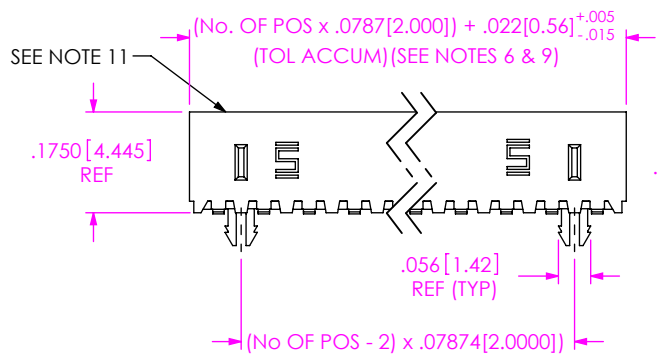
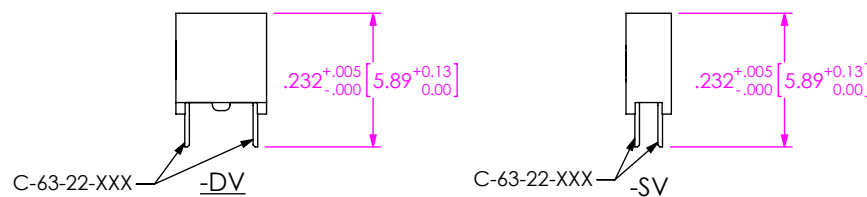


FIG 1
MMS-140-02-XXX-XV-LC SHOWN

NOTES:

1. Ⓢ REPRESENTS A CRITICAL DIMENSION.
2. MAXIMUM ALLOWABLE SWAY: 2° IN EITHER DIRECTION
3. MAXIMUM BURR ALLOWANCE: .003 [0.08]
4. MAXIMUM CUT FLASH: .020, NO FLASH CAN EXTEND BELOW SOLDER TAILS.
5. MINIMUM RETENTION FORCE: SINGLE ROW: .5 LB, DOUBLE ROW: 1 LB
6. CUT BODIES FROM MMS-40-D OR MMS-40-S FOR ALL STYLES EXCEPT -LC. FOR -LC, USE POSITIONALIZED BODIES. 3 POSITION -DV-LC PARTS WILL HAVE 1 LOCKING CLIP.
7. DUE TO THE HIGH AMOUNT OF INSERTION FORCE NEEDED, THE -LC OPTION IS NOT COMPATIBLE WITH AUTO PLACEMENT. SAMTEC RECOMMENDS MANUAL PLACEMENT FOR ALL ASSEMBLIES WITH THE -LC OPTION.
8. THIS DIMENSION TO BE MEASURED AT BEND.
9. FOR -SV LEAD STYLE, EVEN POSITION CUTS LOSE 2 POSITIONS PER CUT; ODD POSITION CUTS LOSE 1 POSITION PER CUT.
10. LEAD STYLE -02-SH, POSITIONS 2 THRU 4 TO BE PACKAGED IN BOXES. ALL OTHER ROW SPECIFICATIONS SHOULD BE TUBED ACCORDING TO TABLE 2, REGARDLESS OF POSITION.
11. PK-02-N TO BE INSERTED FROM THIS SIDE.
12. 4 POSITION PART WITH -P OPTION MUST SHIP IN -TR PACKAGING.
13. TUBES ARE STANDARD PACKAGING.
14. ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM
15. ATTACH LABEL TO EACH REEL



IN-PROCESS

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:
DECIMALS ANGLES
.XX: ±.01 [0.3] 2°
.XXX: ±.005 [0.13]
.XXXX: ±.0020 [0.051]

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e-Mail: info@SAMTEC.com code 55322

MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 3:1

INSULATOR: VECTRA E130I, COLOR: BLACK
CONTACT: PHOS BRONZE

DESCRIPTION: 2mm SURFACE MOUNT BOX CONNECTOR STRIP ASM

DWG. NO. MMS-1XX-02-XXX-XX-XX-XX-X-XX

BY: BRATCHER 04/01/1994 SHEET 1 OF 4

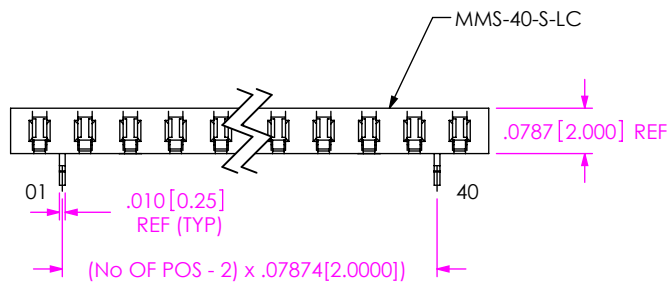


FIG 2
MMS-140-02-XXX-SH-LC SHOWN

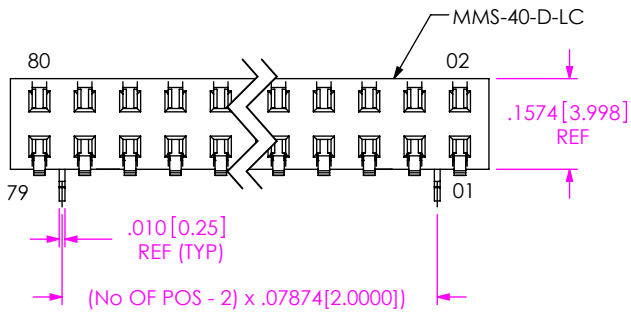
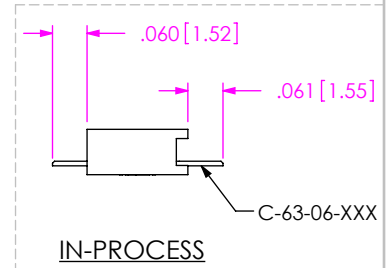
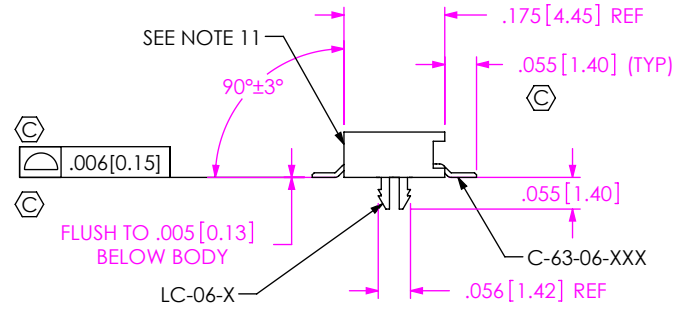
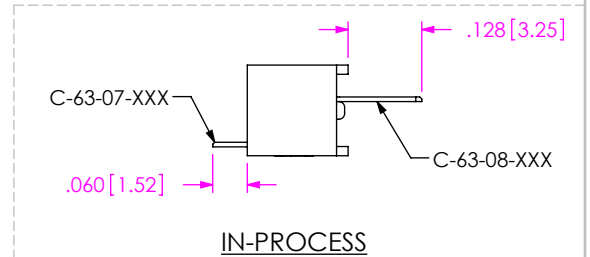
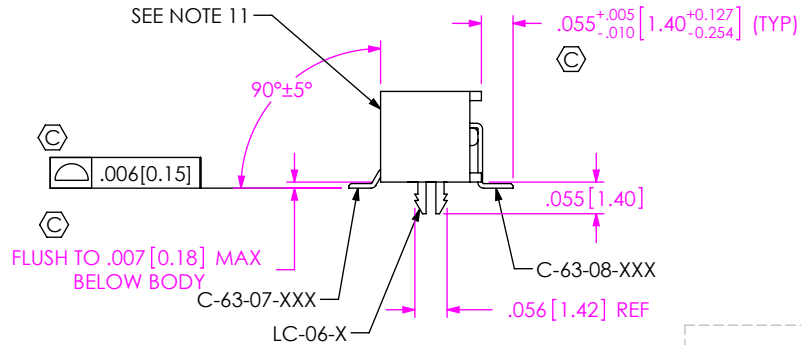


FIG 3
MMS-140-02-XXX-DH-LC SHOWN



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 e-Mail info@SAMTEC.com code 55322

DO NOT SCALE DRAWING
 SHEET SCALE: 3:1

DESCRIPTION:
 2mm SURFACE MOUNT BOX CONNECTOR STRIP ASM
 DWG. NO.
MMS-1XX-02-XXX-XX-XX-XX-X-XX
 BY: BRATCHER 04/01/1994 SHEET 2 OF 4

"R" = USED MEASURED DIMENSION
 "S" = ("R" - .118[3.00]) / 2

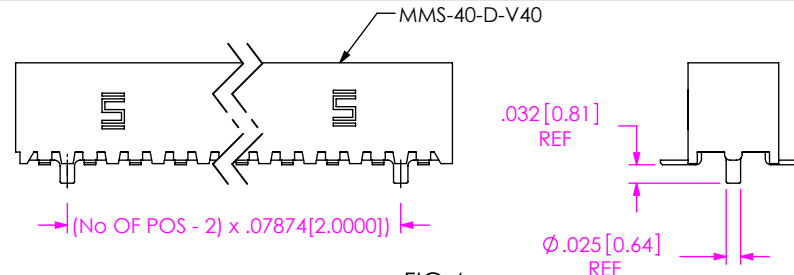
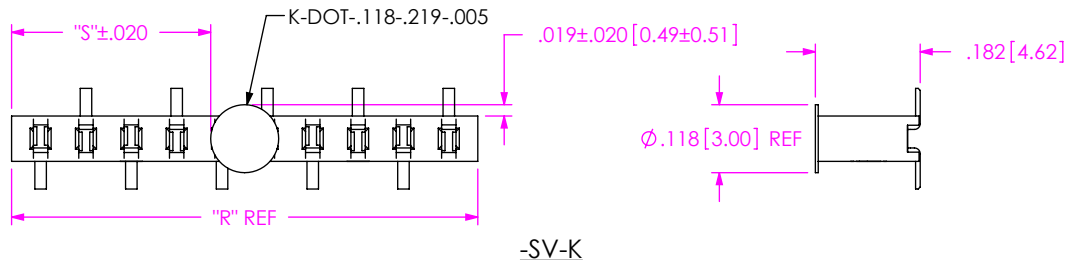


FIG 4
 -A: MOLDED ALIGNMENT PIN
 ONLY AVAILABLE ON -DV
 (MMS-140-02-XXX-DV-A SHOWN)
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

"M" = USED MEASURED DIMENSION
 "P" = ("M" - .2165[5.50]) / 2

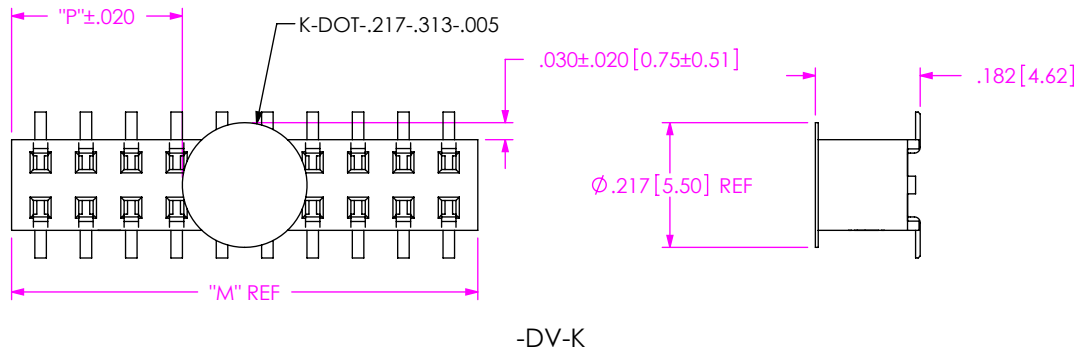


FIG 6
 -K: POLYIMIDE FILM PAD
 ONLY AVAILABLE ON -SV & -DV
 (MMS-140-02-XXX-XV-K SHOWN)
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

"L" = (No OF POSITIONS x .07874[2.0000]) + .022[0.56]

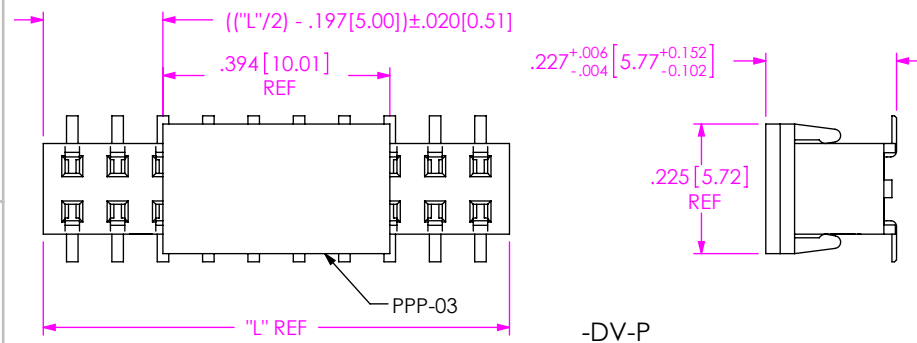
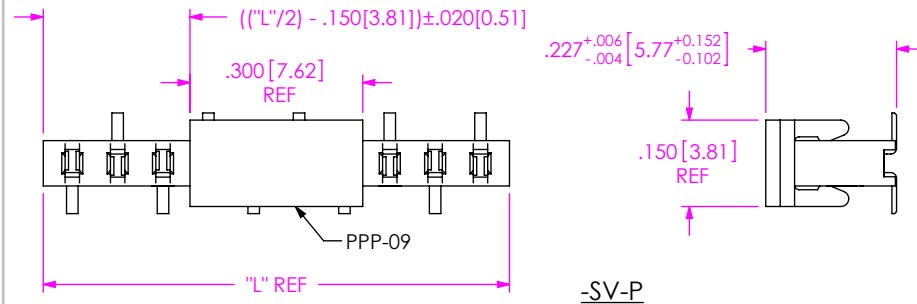


FIG 5
 -P: PICK & PLACE PAD
 ONLY AVAILABLE ON -SV & -DV
 (MMS-140-02-XXX-XV-P SHOWN)
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

"L" = (No OF POSITIONS x .07874[2.0000]) + .022[0.56]

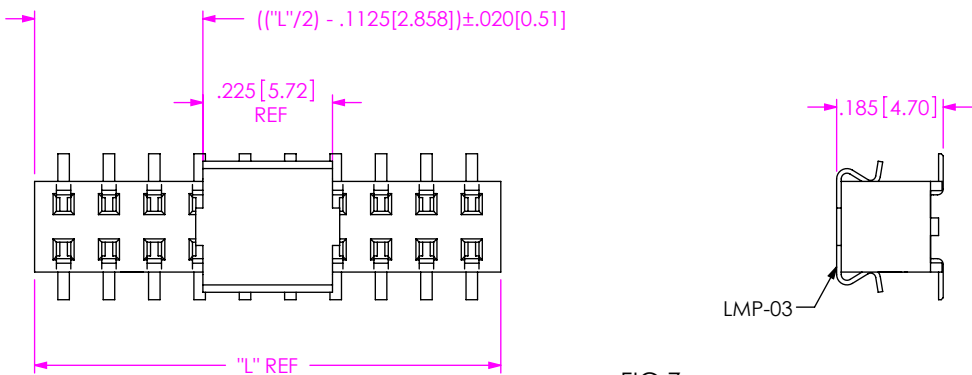


FIG 7
 -M: METAL PICK & PLACE PAD
 ONLY AVAILABLE ON -DV
 (MMS-140-02-XXX-DV-M SHOWN)
 (DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

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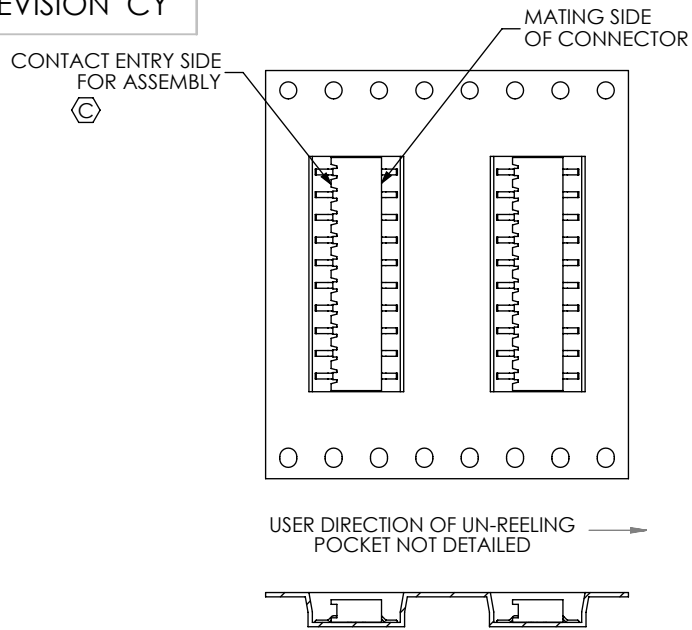
DO NOT SCALE DRAWING

SHEET SCALE: 3:1

DESCRIPTION:
 2mm SURFACE MOUNT BOX CONNECTOR STRIP ASM

DWG. NO.
MMS-1XX-02-XXX-XX-XX-XX-X-XX

BY: BRATCHER 04/01/1994 SHEET 3 OF 4



MMS-110-02-XXX-SH SHOWN FOR ORIENTATION OF -SH & -DH STYLES
(MMS-103-02-X-LC, POS 1 TO FACE ROUND HOLES)

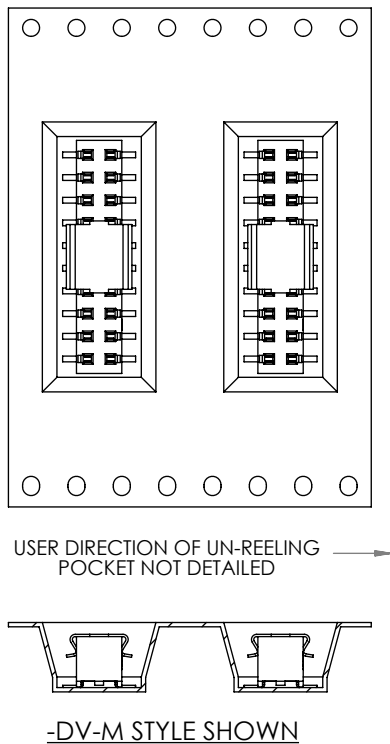


FIG 8
-TR: TAPE & REEL PACKAGING

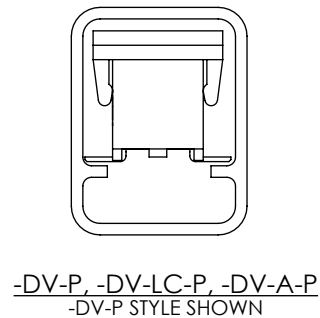
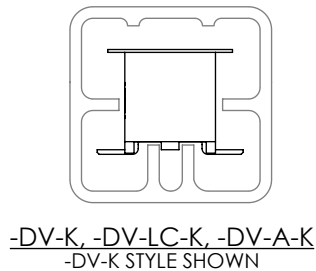
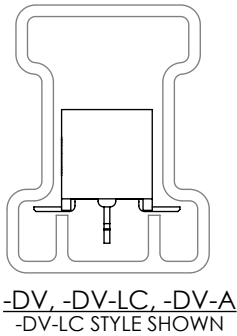
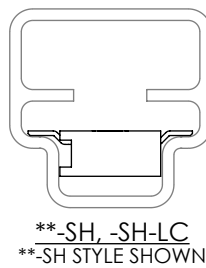
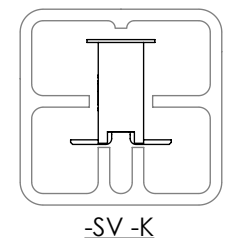
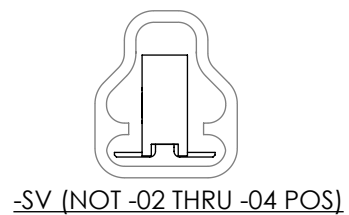
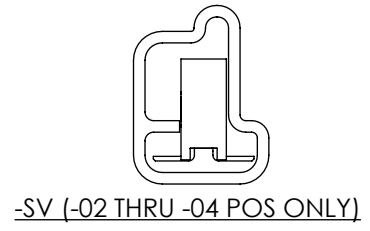
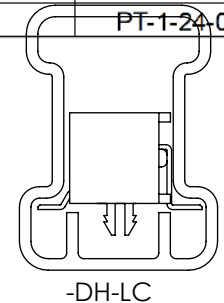


FIG 9
TUBE PACKAGING OPTIONS

| TABLE 2 (#1 POSITION TO BE TUBED IN DIRECTION C) | |
|--|----------------|
| LEAD STYLE | PACKAGING TUBE |
| -DV, -DV-LC, -DV-A | PT-1-24-02-17 |
| -DV-M, -DV-LC-M, -DV-A-M | PT-1-24-01-63 |
| -DV-K, -DV-LC-K, -DV-A-K | PT-1-24-02-63 |
| ***-DV-P, ***-DV-LC-P, ***-DV-A-P | PT-BKT001 |
| *-SH, -SH-LC | PT-1-24-02-16 |
| -DH | PT-1-24-02-17 |
| ***-DH-P, -DH-K | PT-1-24-06-17 |
| -DH-LC | PT-1-24-02-17 |
| -SV (NOT -02 THRU -04 POS) | PT-1-24-01-16 |
| -SV (-02 THRU -04 POS ONLY) | PT-1-24-01-68 |
| ***-SV-P NOTE 12 | PT-1-24-13-09 |
| -SV-K | PT-1-24-03-63 |



| | | |
|---|---|---|
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| | <p>DESCRIPTION: 2mm SURFACE MOUNT BOX CONNECTOR STRIP ASM</p> | |
| | <p>DWG. NO. MMS-1XX-02-XXX-XX-XX-XX-X-XX</p> | |
| <p>BY: BRATCHER 04/01/1994</p> | | <p>SHEET 4 OF 4</p> |