

MTSW-117-08-L-D-205 Datasheet



DiGi Electronics Part Number	MTSW-117-08-L-D-205-DG
Manufacturer	Samtec Inc.
Manufacturer Product Number	MTSW-117-08-L-D-205
Description	VARIABLE HEIGHT PCB HEADER STRIP

<https://www.DiGi-Electronics.com>

Detailed Description

Connector Header Through Hole 34 position 0.100" (2.54mm)

This model MTSW-117-08-L-D-205 is available at DiGi Electronics.

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Manufacturer Product Number:

MTSW-117-08-L-D-205

Series:

Flex Stack, MTSW

Connector Type:

Header, Cuttable

Pitch - Mating:

0.100" (2.54mm)

Number of Rows:

2

Number of Positions Loaded:

All

Shrouding:

Unshrouded

Termination:

Solder

Contact Length - Mating:

0.205" (5.21mm)

Overall Contact Length:

0.530" (13.46mm)

Contact Shape:

Square

Contact Finish Thickness - Mating:

Manufacturer:

Samtec Inc.

Product Status:

Active

Contact Type:

Male Pin

Number of Positions:

34

Row Spacing - Mating:

0.100" (2.54mm)

Style:

Board to Board or Cable

Mounting Type:

Through Hole

Fastening Type:

Push-Pull

Contact Length - Post:

0.225" (5.72mm)

Insulation Height:

0.100" (2.54mm)

Contact Finish - Mating:

Gold

Contact Finish - Post:

DO NOT SCALE FROM THIS PRINT

LEAD STYLE	PIN #1	PIN #2	PIN #3
-05	T-1S6-21-X-2	N/A	N/A
-06	T-1S6-18-X-2	N/A	N/A
-07	T-1S6-07-X-2	T-1S6-15-X-2	T-1S6-10-X-2
-08	T-1S6-08-X-2	T-1S6-09-X-2	T-1S6-11-X-2
-09	T-1S6-09-X-2	T-1S6-11-X-2	T-1S6-20-X-2
-10	T-1S6-10-X-2	T-1S6-12-X-2	T-1S6-13-X-2
-11	T-1S6-11-X-2	T-1S6-20-X-2	T-1S6-19-X-2
-12	T-1S6-12-X-2	T-1S6-13-X-2	T-1S6-14-X-2
-13	T-1S6-13-X-2	T-1S6-14-X-2	N/A
-21	T-1S6-14-X-2	N/A	N/A
-22	T-1S6-15-X-2	T-1S6-10-X-2	T-1S6-12-X-2
-23	T-1S6-16-X-2	N/A	N/A
-24	T-1S6-17-X-2	N/A	N/A
-27	T-1S6-19-X-2	N/A	N/A
-28	T-1S6-20-X-2	T-1S6-19-X-2	N/A

LENGTH	"L"
-07	.430 [10.92]
-08	.530 [13.46]
-09	.730 [18.54]
-10	.830 [21.08]
-11	.930 [23.62]
-12	1.030 [26.16]
-13	1.230 [31.24]
-14	1.430 [36.32]
-15	.630 [16.00]
-16	.445 [11.30]
-17	.480 [12.19]
-18	.300 [7.62]
-19	1.330 [33.78]
-20	1.130 [28.70]
-21	.335 [8.51]

ROW / OPTION	USE BODY
-S / -S-NA / -S-NE	TSW-50-S
-S-RA / -S-RE	TSW-50-S-RA
-D / -D-NA / -D-NE	RTSW-50-D
-D-RA	TSW-50-D-RA
-T / -T-NA / -T-NE	TSW-50-T
-T-RA	TSW-50-T-RA
-Q	TSW-50-T

TERMINAL SPACE SPEC.
(SEE ASSEMBLY INSTR.)

- 1 = .100[2.54] (FILL EVERY POS)
- 2 = .200[5.08] (FILL E/O POS STARTING W/ 1ST & ENDING W/ LAST POS IN BODY)

BODY LENGTH SPEC.

- EXPRESSED IN # OF POS
- 1: 01 THRU -50 (-S, -D, -T)
- "A"= NO OF POS x .100[2.54]
- 2: 02 THRU -25 (-S, -D, -T)
- "A"= (NO OF POS x .200[5.08]) - .100[2.54]

LEAD STYLE
(SEE TABLE 1)

PLATING SPECIFICATION

- G: 10µ" GOLD CONTACT, 3µ" GOLD TAIL
- T: MATTE TIN CONTACT AND TAIL
- S: 30µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
- L: 10µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL
- E: 50µ" HEAVY GOLD ON CONTACT AREA, 3µ" GOLD ON TAIL
- H: 30µ" HEAVY GOLD CONTACT AREA, 3µ" GOLD ON TAIL
- F: 3µ" FLASH SELECTIVE GOLD CONTACT, MATTE TIN TAIL
- STL: 30µ" GOLD SELECTIVE ON CONTACT TIN/LEAD (90/10+/-5%) TAIL
- TM: MATTE TIN CONTACT AND TAIL
- SM: 30µ" SELECTIVE GOLD CONTACT MATTE TIN TAIL
- LM: 10µ" LIGHT SELECTIVE GOLD CONTACT MATTE TIN TAIL
- FM: 3µ" GOLD FLASH SELECTIVE ON CONTACT MATTE TIN TAIL

OPTION #2

- POLARIZATION SPEC.
- XXX INDICATES POS TO BE OMITTED (SEE FIG 6, SHT 5)

OPTION #1

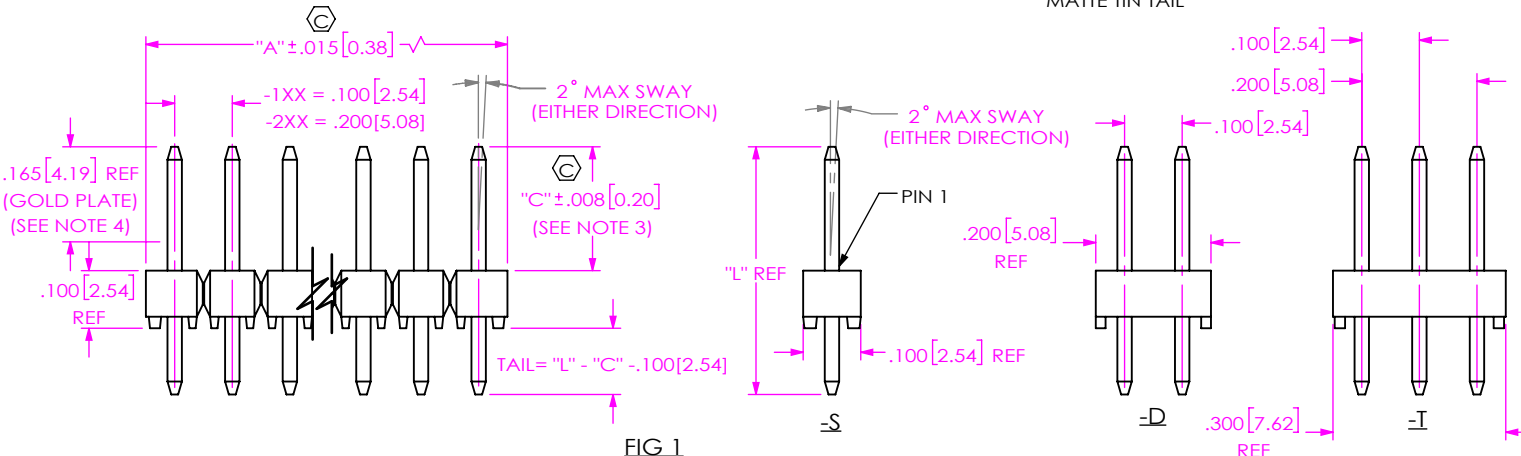
- BLANK = STRAIGHT
- RA = RIGHT ANGLE (SEE TABLE 3 & FIG 2, SHT 2) (-05 N/A) (-RA OPTION WITH -LL OPTION EQUALS TO -LA OPTION)
- RE = EXTENDED RIGHT ANGLE (SEE TABLE 3 & FIG 2, SHT 2) (SINGLE ROW ONLY) (-05, -07, -23 -24 N/A)
- NA = RA OPTION WITH STRAIGHT OPTION BODY (SEE TABLE 3 & FIG 3, SHT 2) (-NA OPTION WITH -LL OPTION IS VALID)
- NE = RE OPTION WITH STRAIGHT OPTION BODY (SEE TABLE 3 & FIG 3, SHT 2)
- LL = LOCKING LEAD (SEE FIG 4, SHT 3 & FIG 5, SHT 4) (N/A WITH -RE OPTION OR SINGLE ROW 1 OR 2 POSITIONS)
- LA = -RA OPTION WITH -LL OPTION (SEE FIG 4, SHT 3 & FIG 5, SHT 4) (N/A IN SINGLE ROW 1 OR 2 POSITION) (TAILS FROM .090[2.29] TO .310[7.87] ONLY) (N/A IN SINGLE ROW, 1 OR 2 POSITIONS) POST = .530[13.46] MAX

POST HEIGHT

- XXXX = "C" (SEE TABLE 4)
- ROW SPECIFICATION (SEE TABLE 2)**

- S: SINGLE
- D: DOUBLE
- T: TRIPLE
- Q: TRIPLE ROW (FILL OUTER ROWS ONLY)

FOR -RX OPTION: TAIL = "L" - "C" - "B" - .15 REF			
FOR -NX OPTION: TAIL = "L" - "C" - "B" - .13 REF			
(CALCULATIONS APPLY TO FIRST ROW PIN LENGTHS ONLY)			
LEAD STYLE	"C" MAXIMUM STRAIGHT	"C" MAXIMUM W/ RA	"C" MAXIMUM W/ RE
-05	.235 [5.97]	N/A	N/A
-06	.200 [5.08]	N/A	N/A
-07	.330 [8.38]	.130 [3.30]	N/A
-08	.430 [10.92]	.230 [5.84]	.130 [3.30]
-09	.630 [16.00]	.430 [10.92]	.330 [8.38]
-10	.730 [18.54]	.530 [13.46]	.430 [10.92]
-11	.830 [21.08]	.630 [16.00]	.530 [13.46]
-12	.930 [23.62]	.730 [18.54]	.630 [16.00]
-13	1.130 [28.70]	.930 [23.62]	.830 [21.08]
-21	1.330 [33.78]	1.130 [28.70]	1.030 [26.16]
-22	.530 [13.46]	.330 [8.38]	.230 [5.84]
-23	.345 [8.76]	.145 [3.68]	N/A
-24	.380 [9.65]	.180 [4.57]	N/A
-27	1.230 [31.24]	1.030 [26.16]	.930 [23.62]
-28	1.030 [26.16]	.830 [21.08]	.730 [18.54]



- NOTES:
- ⊕ REPRESENTS A CRITICAL DIMENSION.
 - MINIMUM TERMINAL PUSHOUT FORCE: 3 LBS.
 - MAXIMUM HEIGHT VARIATION BETWEEN ANY TWO ROWS SHALL BE .005[0.13] (RA TAIL N/A).
 - ASSEMBLE GOLD PLATE END AS SHOWN.
 - TOW & SWAY SPEC. OF 2° APPLIES TO ALL POSITIONS, POST & TAIL, IN ALL DIRECTIONS.
 - STL PLATING AVAILABLE IN LEAD STYLES -07, -08, -10, -16, -17 & -21.
 - STRAIGHT THROUGH HOLE ONLY.
 - ORIENTATE PINS TO REDUCE THE NUMBER OF BANDOLIERS MARKS IN THE POST AREA. (SEE TABLE 6)
 - MAXIMUM CUT FLASH: .020[0.51].
 - TABLE 5 IS A REFERENCE FOR INDIVIDUAL PIN LENGTHS AS LISTED ON THE T-1S6 COMPONENT PRINT AND NOT THE TERMINAL SPEC IN TABLE 1 OR IN THE PART CALLOUT.
 - MUST USE T-30193-13 (2 1/2" BLADES) TO CUT -T AND -Q PARTS.
 - ORDERS WILL BE PACKAGED ACCORDING TO THE SAMTEC PACKAGING EFFICIENCY STANDARDS (SPES) FOUND ON WWW.SAMTEC.COM

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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MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 3:1
BODY: GLASS FILLED POLYESTER, COLOR: BLACK
TERMINAL: PHOSPHER BRONZE

DISCREPANCY:
 ASSEMBLY, .025[.64] SQ. POST TERMINAL STRIP
 DWG. NO.
MTSW-XXX-XX-X-X-XXXX-XX-XXX
 BY: PURVIS 02/17/1987 SHEET 1 OF 6

REVISION BO

TABLE 3	
BODY SPECIFICATION	
-XX	"B"
-RA	.060 [1.52]
-RE	.160 [4.06]

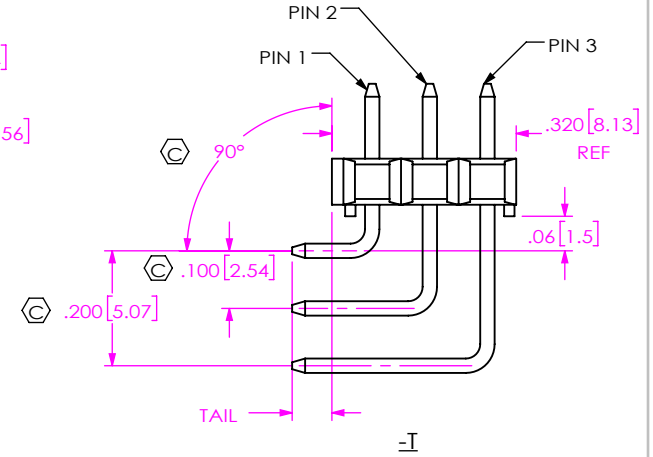
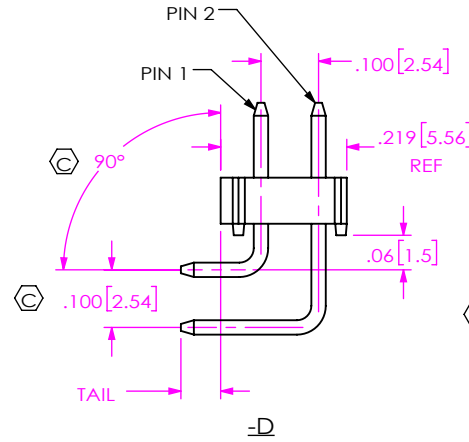
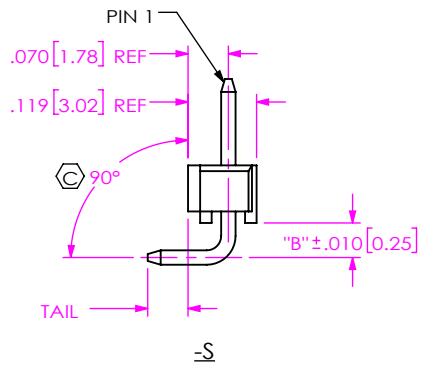
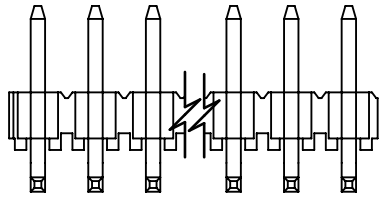


FIG 2
MTSW-XXX-XX-X-S-XXXX-RX SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

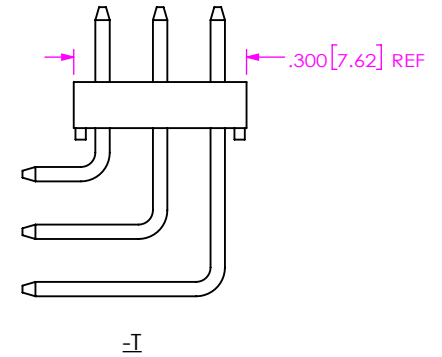
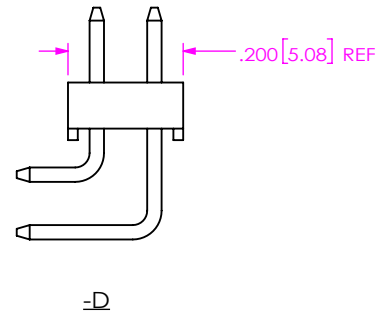
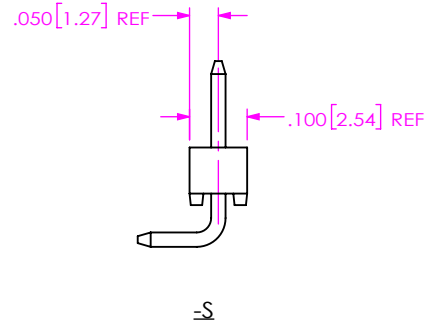
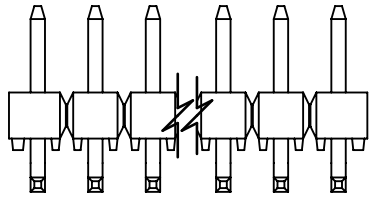


FIG 3
MTSW-XXX-XX-X-S-XXXX-NX SHOWN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 2)

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SHEET SCALE: 1:2

DESCRIPTION:
ASSEMBLY, .025[.64] SQ. POST TERMINAL STRIP

DWG. NO.
MTSW-XXX-XX-X-X-XXXX-XX-XXX

BY: PURVIS 02/17/1987 SHEET 2 OF 6

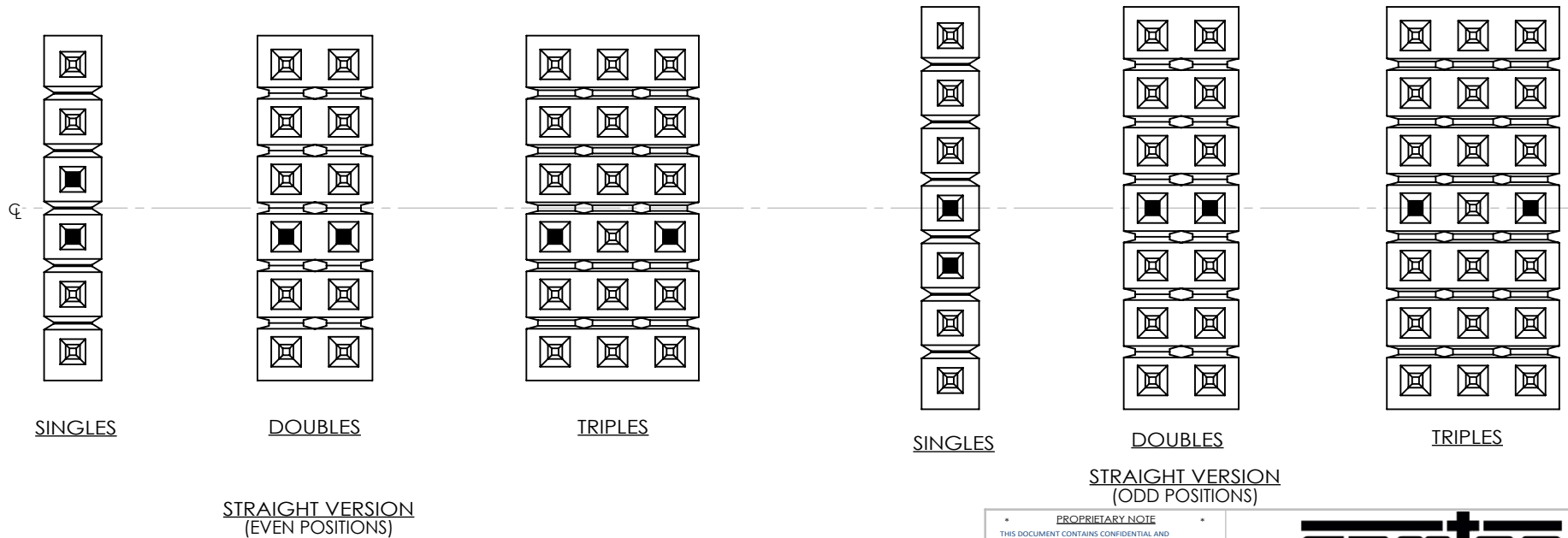
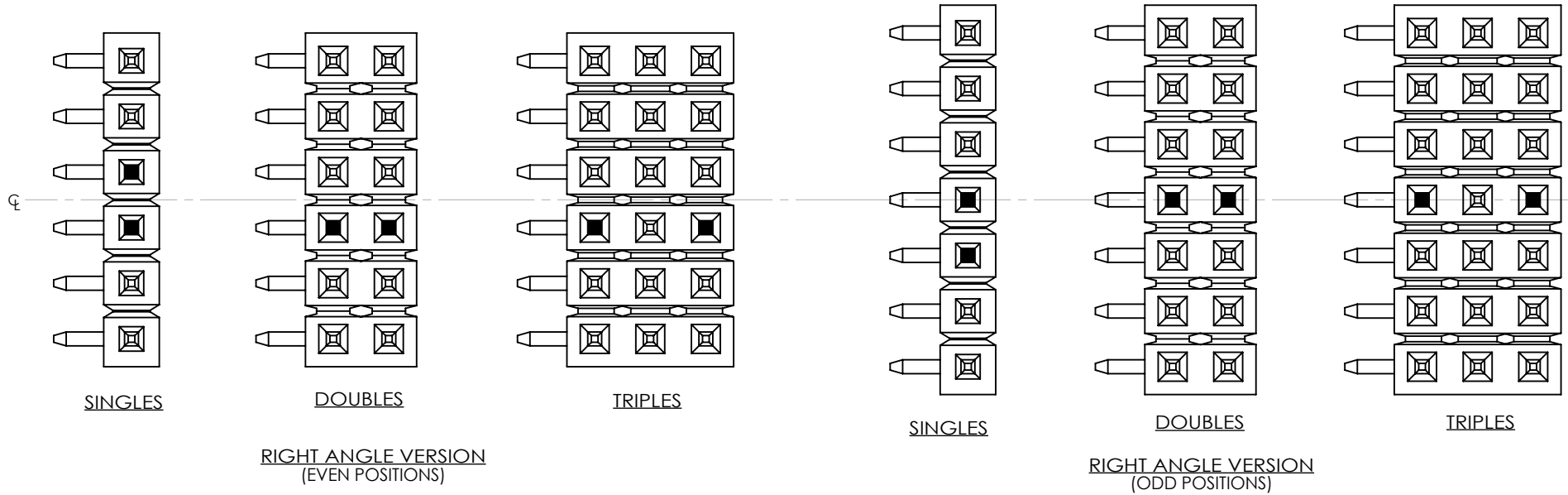


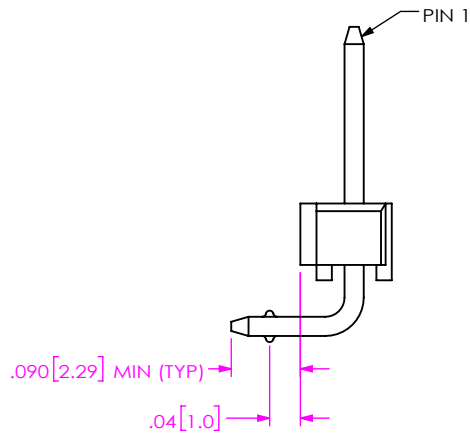
FIG 4
LOCKING LEAD
(STRAIGHT & RA VERSIONS)
■ = CRIMP LOCATION

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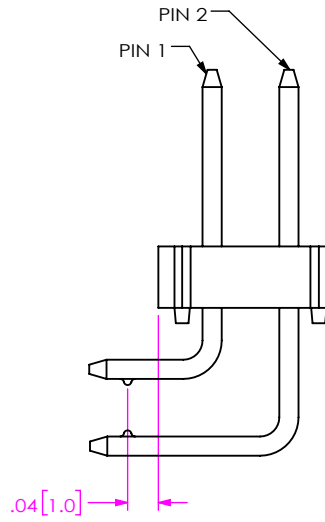
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SHEET SCALE: 4:1

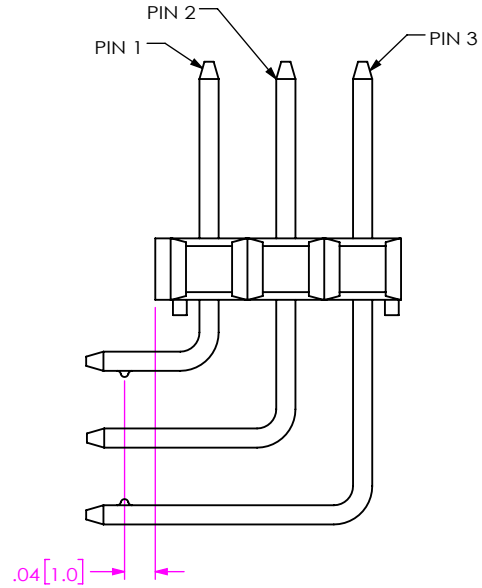
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ASSEMBLY, .025[.64] SQ. POST TERMINAL STRIP
DWG. NO.
MTSW-XXX-XX-X-X-XXXX-XX-XXX
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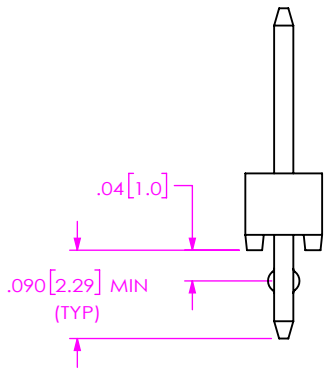
SINGLE -RA/-RE
(SHOWN WITH -LA OPTION)



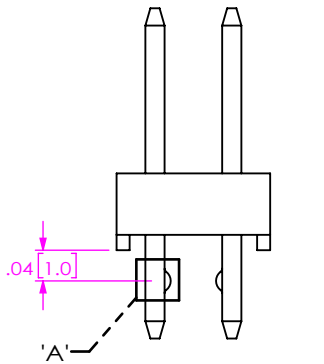
DOUBLE -RA
(SHOWN WITH -LA OPTION)



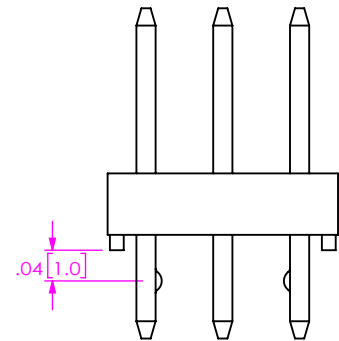
TRIPLE -RA
(SHOWN WITH -LA OPTION)



SINGLE
(SHOWN WITH -LL OPTION)



DOUBLE
(SHOWN WITH -LL OPTION)



TRIPLE
(SHOWN WITH -LL OPTION)

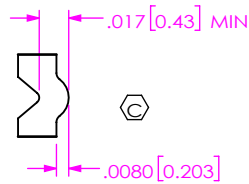


FIG 5

DETAIL 'A'
(CRIMP DETAIL)
(TYP ALL CRIMPS)

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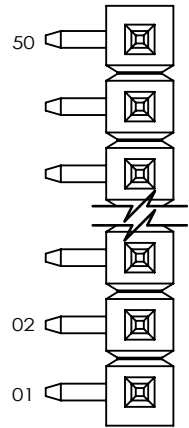
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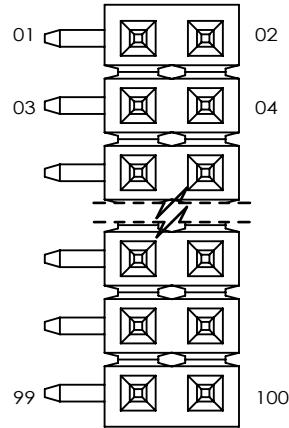
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DESCRIPTION:
ASSEMBLY, .025[.64] SQ. POST TERMINAL STRIP
DWG. NO.
MTSW-XXX-XX-X-X-XXXX-XX-XXX

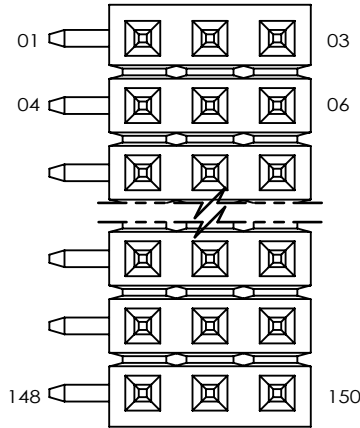
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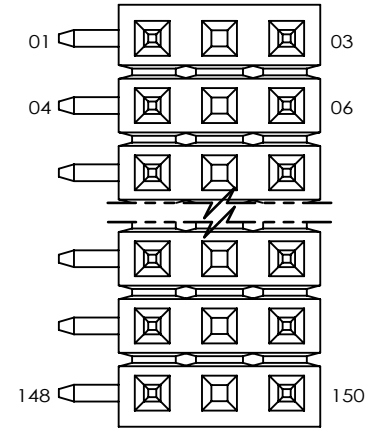
-S: SINGLES



-D: DOUBLES

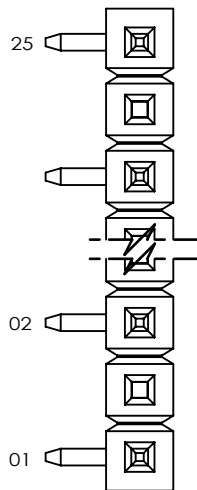


-T: TRIPLES

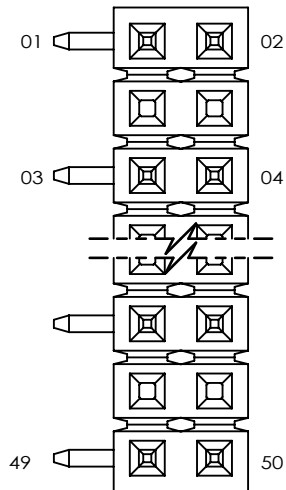


-Q: TRIPLES
(FILL OUTER ROWS ONLY)

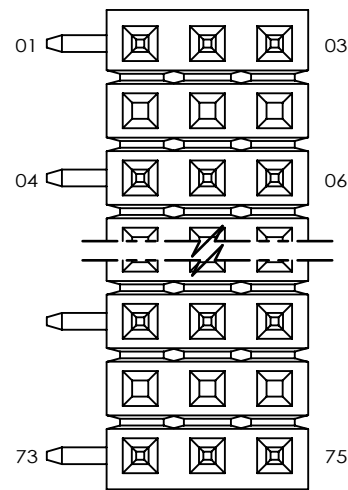
-1 = .100 TERMINAL SPACING



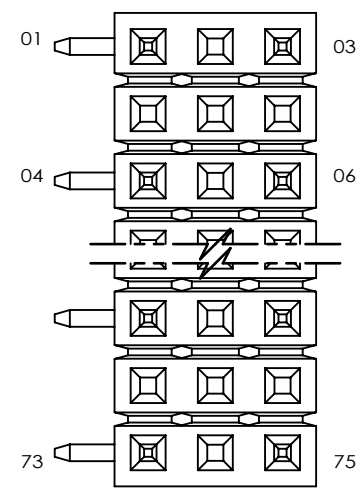
-S: SINGLES



-D: DOUBLES



-T: TRIPLES



-Q: TRIPLES
(FILL OUTER ROWS ONLY)

-2 = .200 TERMINAL SPACING

FIG 6
POLARIZATION
(STRAIGHT & RA VERSIONS)

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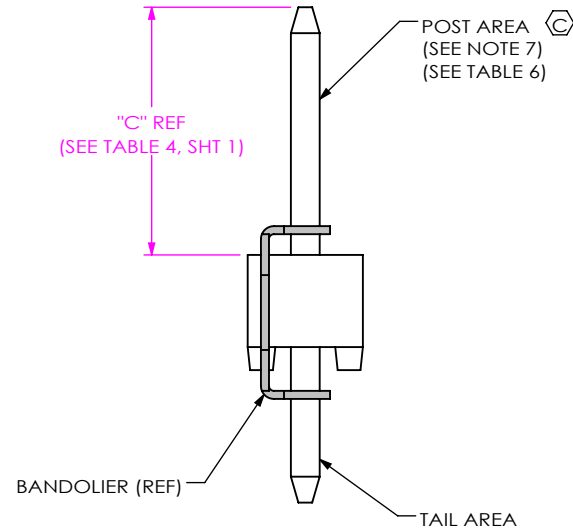
DESCRIPTION:
ASSEMBLY, .025[.64] SQ. POST TERMINAL STRIP

DWG. NO.
MTSW-XXX-XX-X-X-XXXX-XX-XXX

BY: PURVIS 02/17/1987 SHEET 5 OF 6

TABLE 6			
LEAD STYLE	NUMBER OF BAND MARKS ALLOWED IN POST AREA		
	PIN #1	PIN #2	PIN #3
*-05	1	N/A	N/A
-06	1	N/A	N/A
-07	1	1	1
-07-RA	0	0	0
-08	2	2	2
-08-RA	0	0	0
-08-RE	0	0	0
*-09	2	2	2
*-09-RA	1	0	0
*-09-RE	0	0	0
*-10	2	2	2
*-10-RA	1	0	0
*-10-RE	0	0	0
*-11	2	2	2
*-11-RA	1	0	0
*-11-RE	0	0	0
*-12	2	2	2
*-12-RA	1	0	0
*-12-RE	0	0	0
*-13	2	2	N/A
*-13-RA	1	0	N/A
*-13-RE	0	0	N/A
*-21	2	N/A	N/A
*-21-RA	1	N/A	N/A
*-21-RE	0	N/A	N/A
-22	2	2	2
*-22-RA	1	0	0
*-22-RE	0	0	0
-23	2	N/A	N/A
-23-RA	0	N/A	N/A
-24	2	N/A	N/A
-24-RA	0	N/A	N/A
*-27	2	N/A	N/A
*-27-RA	1	N/A	N/A
*-27-RE	0	N/A	N/A
*-28	2	2	N/A
*-28-RA	1	0	N/A
*-28-RE	0	0	N/A

* PINS TO BE FLIPPED OPPOSITE OF SELECTIVE PLATING BEFORE BEING INSERTED



IN PROCESS 1
-T PLATING ONLY

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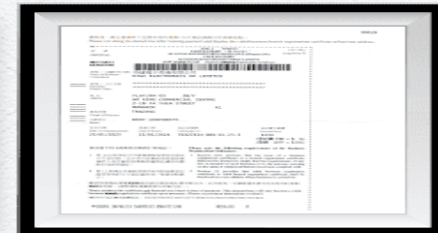
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