EN: This Datasheet/Document is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.

REVISION DR

DO NOT SCALE FROM THIS PRINT

NOTES:
1. Ⓒ REPRESENTS A CRITICAL DIMENSION.
2. MAXIMUM POST HEIGHT VARIATION: .005[0.13].
3. LOAD PARTS POS 1 IN SAME DIRECTION AS ARROW.
4. TUBE POSITIONS 03 THRU 50.
5. TAPE & REEL AVAILABLE ON POSITION 02 THRU 28 ONLY. LEADS MAY NOT BE VISIBLE FOR CUSTOMER'S VISUAL INSPECTION ON SMALLER POSITIONED PARTS WHEN USED WITH THE -P OR -M OPTIONS.
6. MEASURE AT BEND RADIUS.
7. MINIMUM PUSHOUT FORCE: 3 LBS.
8. FOR -TV USE T-31724-01.
9. 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.
10. ONLY AVAILABLE ON -01-DV OPTION, MATES ONLY WITH SSM, SSW, SSQ, BCS, ESW AND ESQ.
11. MAXIMUM ALLOWABLE CUT FLASH .010[0.25], .015[0.38] ALLOWED TOWARDS TAILS.
12. THIS DIMENSION TO BE MEASURED RELATIVE TO DATUM -Z-.
13. -FR OPTIONS WILL BE SHIPPED AT THE MAX QUANTITY PER REEL, BASED ON OPTIONS SELECTED.

TABLE 5		
MOUNT STYLE	POSITIONS	COPLANARITY
-DV	-02 THRU -05	.004 [0.10]
	-06 THRU -10	.005 [0.13]
	-11 THRU -50	.006 [0.15]
-TV & -TM	-02 THRU -10	.004 [0.10]
	-11 THRU -20	.005 [0.13]
	-21 THRU -30	.006 [0.15]

TSM-1XX-XX-XXX-XX-X-XXX-X

No OF POSITIONS
-02 THRU -50

LEAD STYLE
(SEE TABLE 1)

PLATING SPECIFICATION
-T: MATTE TIN ON ENTIRE PIN.
-S: 30µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL.
-G: 10µ" SELECTIVE GOLD IN CONTACT AREA, 3µ" SELECTIVE GOLD ON TAIL.
-L: 10µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL.
-TL: TIN/LEAD (90/10) ON ENTIRE PIN.
-STL: 30µ" SELECTIVE GOLD IN CONTACT AREA, TIN/LEAD (90/10) ON TAIL.
-F: 3µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL.
-H: 30µ" SELECTIVE GOLD IN CONTACT AREA, 3µ" SELECTIVE GOLD ON TAIL.
-TM: MATTE TIN ON ENTIRE PIN.
-SM: 30µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL.
-LM: 10µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL.
-FM: 3µ" SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL.
-SS: 30µ" STRIPE SELECTIVE GOLD IN CONTACT AREA, MATTE TIN ON TAIL. (SEE NOTE 10)

OPTION #3
(NOT AVAILABLE WITH -TV & -TM MOUNT STYLES)
-P: PICK AND PLACE PAD
(POS -04 THRU -36, 50 USE PPP-06, SEE FIG4, SHT 2)
(POS -02, USE PPP-81, SEE FIG 9, SHT 2)
(POS -03, USE PPP-86, SEE FIG 10, SHT 2)
(AVAILABLE ON POS -02 & -03 WITH -TR & -FR OPTION ONLY)
-M: METAL PICK AND PLACE PAD
* *** FOR EXISTING CUSTOMERS ONLY**
(USE LMP-01, SEE FIG 5, SHT 2)
(NOT RECOMMENDED WITH -T OR -TM PLATING)
(LEAD STYLES -01 & -04 ONLY)
(AVAILABLE ON POS 04 THRU 36)
(AVAILABLE ON POS 02 AND 03 WITH -TR & -FR OPTION ONLY, SEE NOTE 5)
-TR: TAPE AND REEL (SEE FIG 8, SHT 3)
(02 THRU 28 POS)
-FR: FULL REEL QTY. TAPE & REEL (SEE FIG 8, SHT 3)
(02 THRU 28 POS)(SEE NOTE 13)

OPTION #2
POLARIZED POSITION
SPECIFY OMITTED PIN

OPTION #1
(AVAILABLE FOR -DV MOUNT STYLE ONLY)
-LC: LOCKING CLIP (SEE FIG 2, SHT 2)
(USE LC-05-TM)
(-03 THRU -36 POS, USE 2 PER STRIP)
(-02 POS, USE 1 PER STRIP)
(USE RTSM-XX-DVU)
(SEE NOTE 9)
-A: ALIGNMENT PIN (SEE FIG 3, SHT 2)
(FOR MOLDED TO POSITION, USE RTSM-XX-DVU-XX BODY)
(FOR STAKED, USE RTSM-50-DVU BODY, 5 POS MIN)
(LEAVE BLANK FOR NO HOLD DOWN OPTION)
USE RTSM-50-DVU SEE FIG 1, CAN BE CUT TO POSITION)

MOUNT STYLE
-DV: DOUBLE VERTICAL
* -TV: TRIPLE VERTICAL (-02 THRU -30 ONLY)
(USE HTSW-50-T-LCP, SEE NOTE 8)
-TM: TRIPLE MIXED TECHNOLOGY (-02 THRU -30 ONLY)
(USE HTSW-50-T-LCP, AVAILABLE ON -01 LEAD STYLE ONLY)

*** = FOR EXISTING CUSTOMERS ONLY**

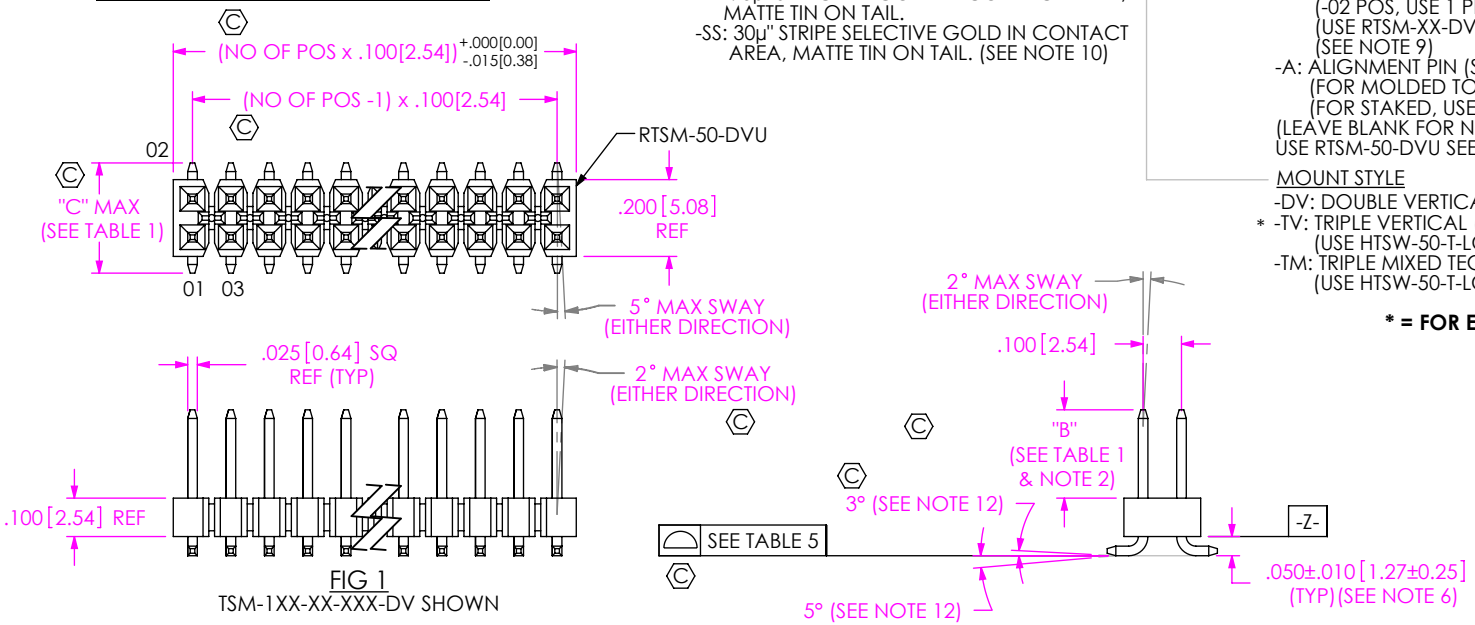
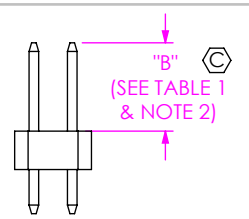


FIG 1
TSM-1XX-XX-XXX-DV SHOWN



IN-PROCESS
-DV MOUNT STYLE

TABLE 1						
LEAD STYLE	MOUNT STYLE	"B"	"C"	"D"	TERMINAL	OVERALL PIN LENGTH
-01	-DV	0.230 [5.84]	0.303 [7.70]	0.280 [7.11]	T-1S6-16-X-2	0.445 [11.30] REF
	-TM, -TV	0.230 [5.84]	---	---	T-1S6-17-X-2	0.480 [12.19] REF
-02	-DV	0.320 [8.13]	0.293 [7.44]	0.370 [9.40]	T-1S6-08-X-2	0.530 [13.46] REF
-03	-DV	0.420 [10.67]	0.293 [7.44]	0.470 [11.94]	T-1S6-15-X-2	0.630 [16.00] REF
-04	-DV	0.120 [3.05]	0.303 [7.70]	0.270 [6.86]	T-1S6-21-X-2	0.335 [8.51] REF
-05	-DV	0.075 [1.91]	0.323 [8.20]	0.270 [6.86]	T-1S6-18-X-2	0.300 [7.62] REF

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
DECIMALS
.XX: ±.01 [.3]
.XXX: ±.005 [.13]
.XXXX: ±.0020 [.051]
ANGLES
2°

PROPRIETARY NOTE
THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.

520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail info@SAMTEC.com code 55322

MATERIAL: INSULATOR: LCP, UL94VO, COLOR: BLACK
TERMINAL: PHOS BRONZE

DO NOT SCALE DRAWING SHEET SCALE: 2:1

DESCRIPTION: DOUBLE ROW GULLWING ASM

DWG. NO. TSM-1XX-XX-XXX-XX-X-XXX-X

F:\DWG\MISC\MKTG\TSM-1XX-XX-XXX-XX-X-XXX-X-MKT.SLDDRW

BY: BRYANT 04/24/1991 SHEET 1 OF 3

REVISION DR

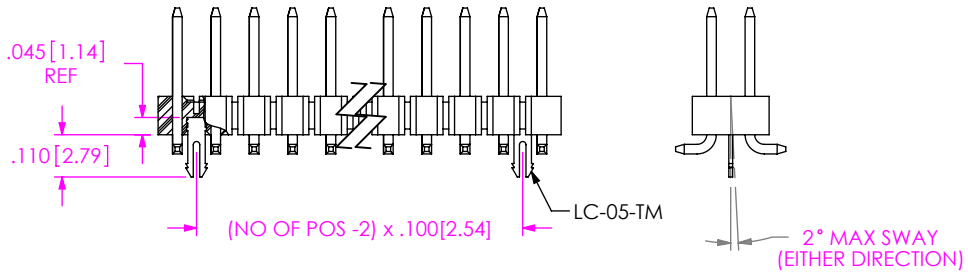


FIG 2
-LC: LOCKING CLIP
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

TABLE 3			
	"A"	BODY	MIN NO OF POS
MOLDED	.100[2.54] REF	RTSM-50-DVU-XX	2
*STAKED	.100[2.54]	RTSM-50-DVU-XX	5

* = USE TWO SM-AH'S

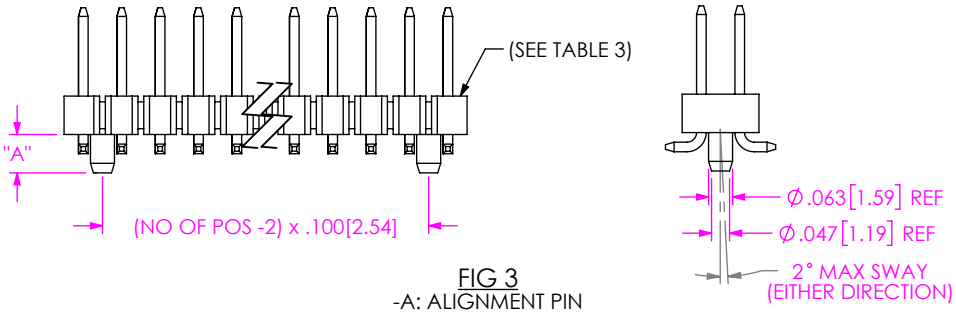


FIG 3
-A: ALIGNMENT PIN
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

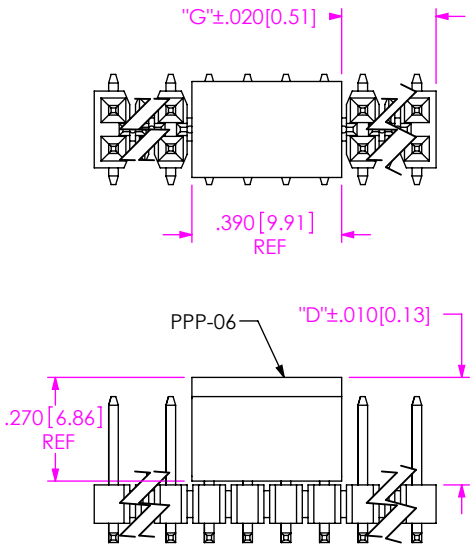


FIG 4
-P: PICK AND PLACE PAD
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

"G" = ((NO OF POS x .100[2.54]) - .390[9.91])/2

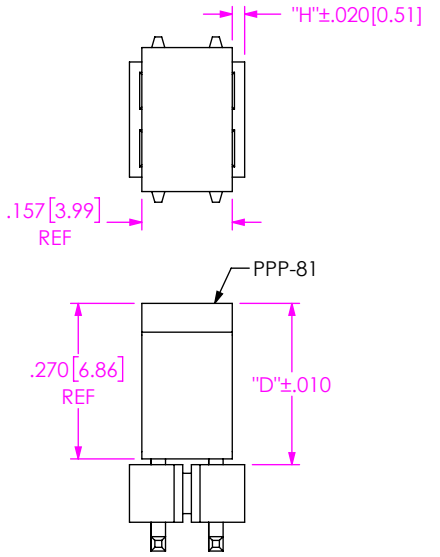


FIG 9
-P: PICK AND PLACE PAD
(-02 POS ONLY)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

"H" = ((NO OF POS x .100[2.54]) - .157[3.99])/2

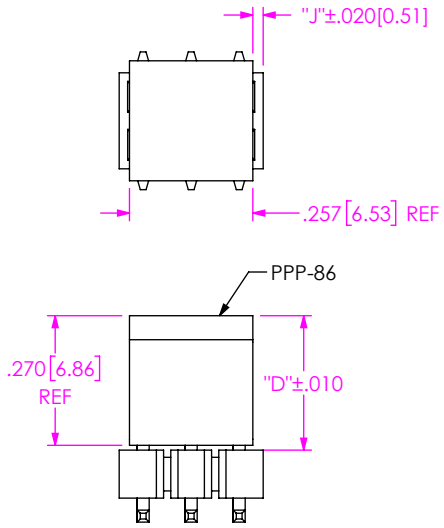


FIG 10
-P: PICK AND PLACE PAD
(-03 POS ONLY)
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

"J" = ((NO OF POS x .100[2.54]) - .257[6.53])/2

TABLE 2	
LEAD STYLE	"F"
-01	0.388[9.86]
-04	0.278[7.06]

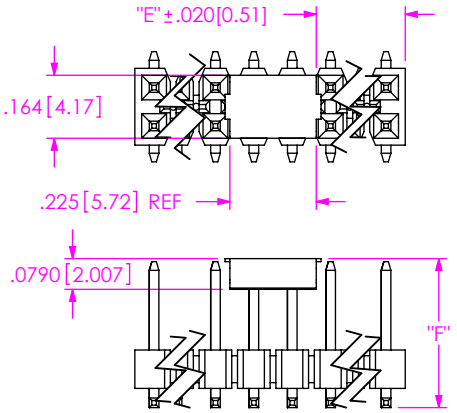


FIG 5
-M: METAL PICK AND PLACE PAD
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)
"E"=((NO OF POS x .100[2.54]) - .225[5.72]) / 2

NOTE:
HAND FILL USE LMP-01
MACHINE FILL USE LMP-01

PROPRIETARY NOTE

THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.

DO NOT SCALE DRAWING

SHEET SCALE: 2:1

samtec
520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail info@SAMTEC.com code 55322

DESCRIPTION:
DOUBLE ROW GULLWING ASM

DWG. NO.
TSM-1XX-XX-XXX-XX-X-XXX-X

BY: BRYANT 04/24/1991 SHEET 2 OF 3

F:\DWG\MISC\MKTG\TSM-1XX-XX-XXX-XX-X-XXX-X-MKT.SLDDRW

REVISION DR

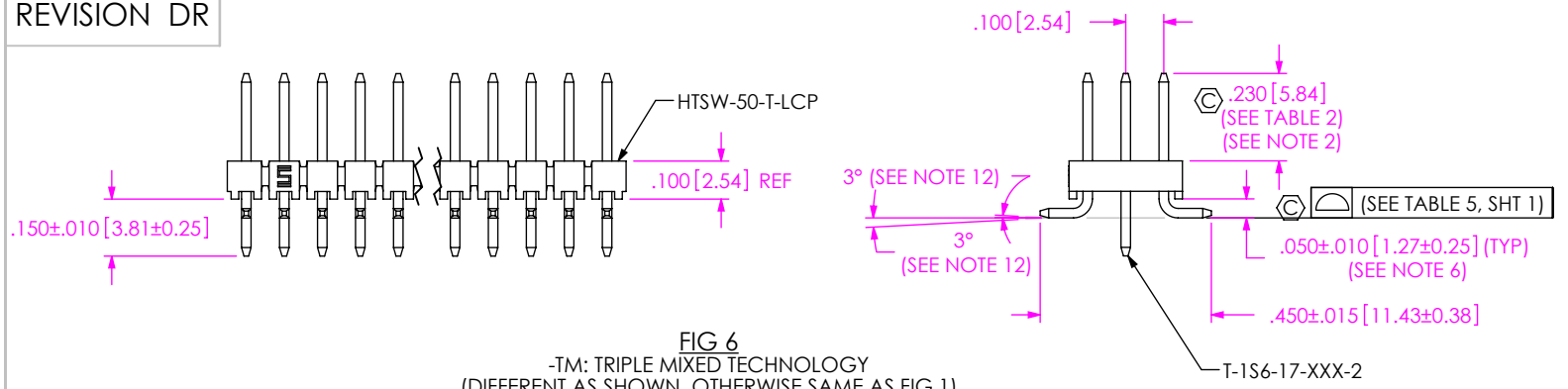
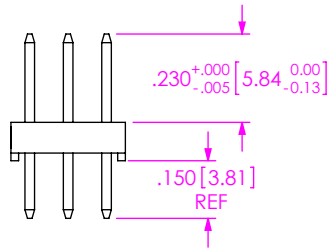
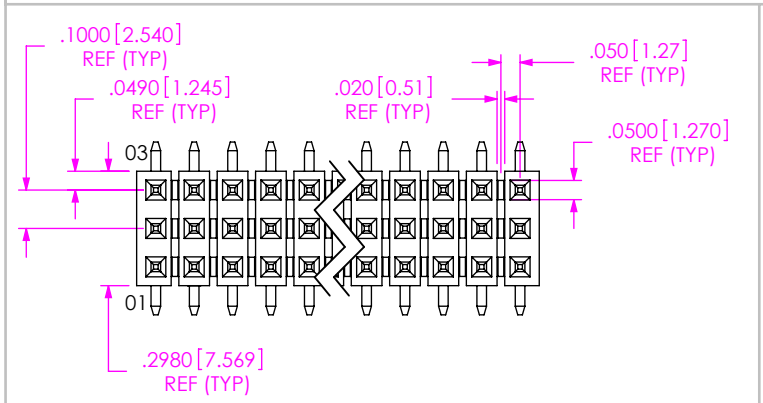


FIG 6
-TM: TRIPLE MIXED TECHNOLOGY
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)



IN-PROCESS
-TM MOUNT STYLE



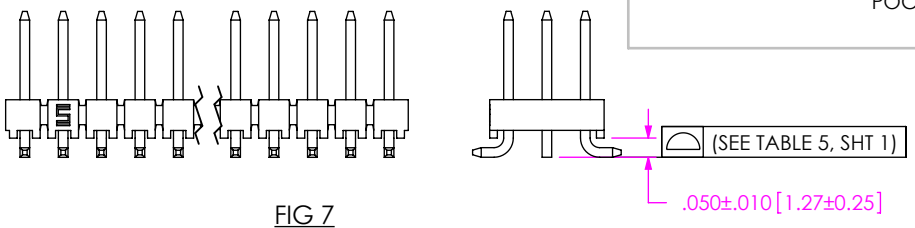
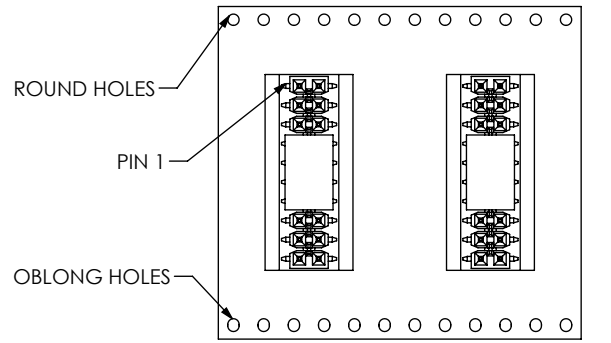


FIG 7
-TV: TRIPLE VERTICAL
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 6)
FOR EXISTING CUSTOMERS ONLY



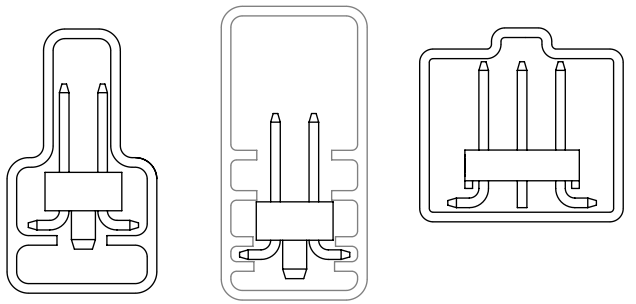
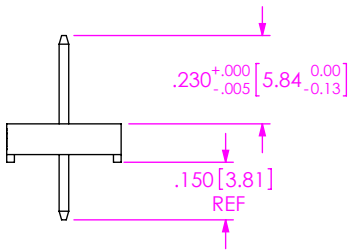
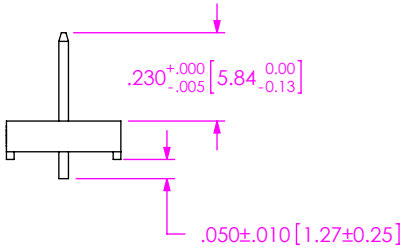


FIG 8
PACKAGING VIEWS

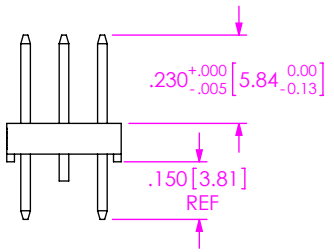
TABLE 4					
LEAD STYLE	MOUNT STYLE	OPTION	TUBE	PLUG	NOTE
01, 02, 04, 05	-DV	NONE	PT-1-24-01-29	TP-03	4
01, 02	-DV	-LC, -A	PT-1-24-01-29	TP-03	4
01, 04, 05	-DV	-P	PT-1-24-06-29	TP-03	4
01, 04, 05	-DV	-LC-P, -A-P	PT-1-24-06-29	TP-03	4
02	-DV	-P	PT-1-24-15-29	TP-07	4
02	-DV	-LC-P, -A-P	PT-1-24-15-29	TP-07	4
03	-DV	NONE	PT-1-24-09-29	TP-03	4
03	-DV	-LC, -A	PT-1-24-09-29	TP-03	4
03	-DV	-P	PT-1-24-16-29	TP-03	4
03	-DV	-LC-P, -A-P	PT-1-24-16-29	TP-03	4
04, 05	-DV	-LC, -A	PT-1-24-03-15	TP-03	4
01, 04, 05	-DV	-M, -LC-M, -A-M, -LC-A-M	PT-TSM004-DV	TP-03	4
01	-TM	NONE	PT-1-24-02-08	TP-13	4
01	-TV	NONE	PT-1-24-01-70	TP-07	4



IN-PROCESS 1
-TV MOUNT STYLE



IN-PROCESS 2
-TV MOUNT STYLE



IN-PROCESS 3
-TV MOUNT STYLE

PROPRIETARY NOTE

THIS DOCUMENT CONTAINS CONFIDENTIAL AND PROPRIETARY INFORMATION AND ALL DESIGN, MANUFACTURING, REPRODUCTION, USE, PATENT RIGHTS AND SALES RIGHTS ARE EXPRESSLY RESERVED BY SAMTEC, INC. THIS DOCUMENT SHALL NOT BE DISCLOSED, IN WHOLE OR PART, TO ANY UNAUTHORIZED PERSON OR ENTITY NOR REPRODUCED, TRANSFERRED OR INCORPORATED IN ANY OTHER PROJECT IN ANY MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF SAMTEC, INC.

DO NOT SCALE DRAWING

SHEET SCALE: 2:1

520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail info@SAMTEC.com code 55322

DESCRIPTION:
DOUBLE ROW GULLWING ASM

DWG. NO.
TSM-1XX-XX-XXX-XX-X-XXX-X

BY: BRYANT 04/24/1991 SHEET 3 OF 3

F:\DWG\MISC\MKTG\TSM-1XX-XX-XXX-XX-X-XXX-X-MKT.SLDDRW