

## TFM-1XX-XX-X-S-XX

1. REPRESENTS A CRITICAL DIMENSION.
2. MINIMUM PUSHOUT FORCE: 16 OZ FOR TERMINALS, 12 OZ FOR WELD TABS, AND 8 OZ FOR LOCKING CLIPS.
3. MEASURED FROM BEND.
4. MAXIMUM TERMINAL BURR: .003 [.08].
5. MAXIMUM HEIGHT VARIATION BETWEEN ANY TWO PINS: .005 [.13].
6. 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.

LEAD STYLE

-01: T-1R16-01-X-2  
THROUGH HOLE  
-02: T-1R16-01-X-2  
SURFACE MOUNT  
-03: T-1R16-10-X  
THROUGH HOLE

## PLATING SPECIFICATIONS

- S: 30µ" SELECTIVE GOLD IN CONTACT AREA,  
MATTE TIN ON TAIL
- F: 3µ" FLASH GOLD IN CONTACT AREA,  
MATTE TIN ON TAIL
- L: 15µ" LIGHT GOLD IN CONTACT AREA,  
MATTE TIN ON TAIL
- H: 30µ" HEAVY GOLD IN CONTACT AREA,  
3µ" GOLD ON TAIL
- T: MATTE TIN CONTACT AND TAIL

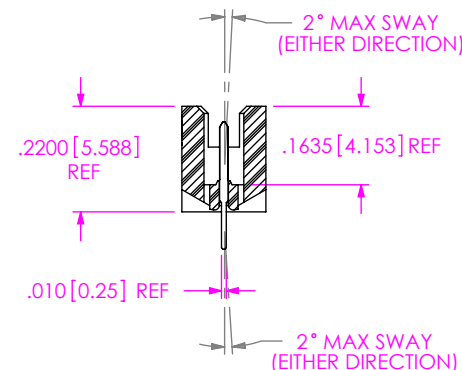
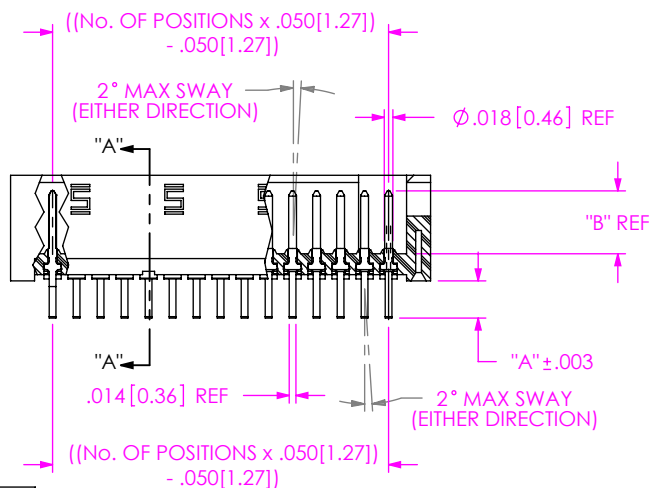
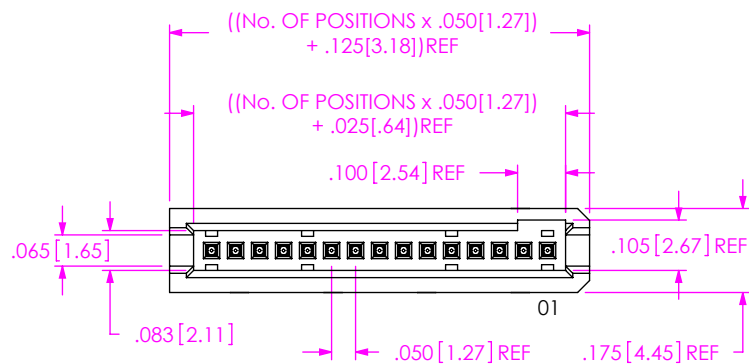
— OPTION

- A: ALIGNMENT PIN (USE TFM-XX-S-01-A)  
(NOT AVAILABLE WITH -WT OPTION)  
(SEE FIG 5, SHEET 2)
- LC: LOCKING CLIP (USE LC-05-TM)  
(NOT AVAILABLE WITH -WT OPTION)  
(SEE FIG 7, SHEET 3) (SEE NOTE 6)
- P: PICK AND PLACE PAD (USE PPP-15)  
(SEE FIG 6, SHEET 2)  
(ONLY AVAILABLE ON -08 THRU -50 POSITIONS,  
-07 THRU -50 POSITIONS WITH -WT OPTION)
- K: POLYIMIDE FILM (SEE FIG 3, SHEET 2)  
(USE K-DOT-217-.313-.005)
- WT: WELD TABS (USE WT-25-07-T)  
(SEE FIG 4, SHEET 2)  
(AVAILABLE ON -02 THRU -30 POS ONLY)  
(NOT AVAILABLE WITH -A OR -LC OPTIONS)
- TR: TAPE & REEL  
(SEE SHEET 3, TAPE AND REEL VIEW)
- \*-SN: SOLDER NAIL (USE WT-27-03)  
(NOT AVAILABLE WITH -A, -LC, OR  
-WT OPTIONS) (SEE FIG 8, SHEET 3)

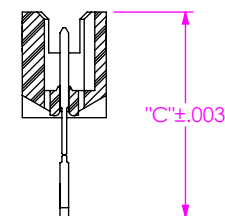
## BODY SPECIFICATION

-S: SINGLE ROW  
(USE TFM-XX-S-XX-XX)

\*\* NOT TOOLED



SECTION "A"-"A"



IN-PROCESS

FIG 1  
(TFM-115-01-X-S-XX SHOWN)

POSITION	COPLANARITY
-02 THRU -29	.004 [.10]
-030 THRU -39	.006 [.15]
-40 THRU -50	.008 [.20]

TABLE 2

LEAD STYLE	BODY	"A"	"B"	"C"	"E"
-01	TFM-XX-S-01-XX	.078 [1.98]	.131 [3.33]	.428 [10.87]	.303 [7.70]
-02	TFM-XX-S-01-XX	N/A	.131 [3.33]	.428 [10.87]	.231 [5.87]
-03	TFM-XX-S-01-XX	.111 [3.33]	.139 [3.53]	.645 [16.38]	.356 [9.04]

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:

DECIMALS	ANGLES
0.0001	0.00009
0.0002	0.00018
0.0003	0.00027
0.0004	0.00036
0.0005	0.00045
0.0006	0.00054
0.0007	0.00063
0.0008	0.00072
0.0009	0.00081
0.0010	0.00090
0.0011	0.00099
0.0012	0.00108
0.0013	0.00117
0.0014	0.00126
0.0015	0.00135
0.0016	0.00144
0.0017	0.00153
0.0018	0.00162
0.0019	0.00171
0.0020	0.00180
0.0021	0.00189
0.0022	0.00198
0.0023	0.00207
0.0024	0.00216
0.0025	0.00225
0.0026	0.00234
0.0027	0.00243
0.0028	0.00252
0.0029	0.00261
0.0030	0.00270
0.0031	0.00279
0.0032	0.00288
0.0033	0.00297
0.0034	0.00306
0.0035	0.00315
0.0036	0.00324
0.0037	0.00333
0.0038	0.00342
0.0039	0.00351
0.0040	0.00360
0.0041	0.00369
0.0042	0.00378
0.0043	0.00387
0.0044	0.00396
0.0045	0.00405
0.0046	0.00414
0.0047	0.00423
0.0048	0.00432
0.0049	0.00441
0.0050	0.00450
0.0051	0.00459
0.0052	0.00468
0.0053	0.00477
0.0054	0.00486
0.0055	0.00495
0.0056	0.00504
0.0057	0.00513
0.0058	0.00522
0.0059	0.00531
0.0060	0.00540
0.0061	0.00549
0.0062	0.00558
0.0063	0.00567
0.0064	0.00576
0.0065	0.00585
0.0066	0.00594
0.0067	0.00603
0.0068	0.00612
0.0069	0.00621
0.0070	0.00630
0.0071	0.00639
0.0072	0.00648
0.0073	0.00657
0.0074	0.00666
0.0075	0.00675
0.0076	0.00684
0.0077	0.00693
0.0078	0.00702
0.0079	0.00711
0.0080	0.00720
0.0081	0.00729
0.0082	0.00738
0.0083	0.00747
0.0084	0.00756
0.0085	0.00765
0.0086	0.00774
0.0087	0.00783
0.0088	0.00792
0.0089	0.00801
0.0090	0.00810
0.0091	0.00819
0.0092	0.00828
0.0093	0.00837
0.0094	0.00846
0.0095	0.00855
0.0096	0.00864
0.0097	0.00873
0.0098	0.00882
0.0099	0.00891
0.0100	0.00900

XX: +.01 [.3]

.XXX:  $\pm .005$  [.13]

.XXX:  $\pm .0020$  [.051]

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**MATERIAL:** DO NOT SCALE DRAWING  
INSULATOR: LCP, UL 94 V0, COLOR: BLACK  
TERMINAL: PHOSPHOR BRONZE

SHEET SCALE: 1:0.4

DESCRIPTION:	.050 C.L. SINGLE ROW SHROUDED TERMINAL STRIP
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DWG. NO. TFM-1XX-XX-X-S-XX

BY: D. SCHMELZ	8/21/2008	SHEET 1 OF 3
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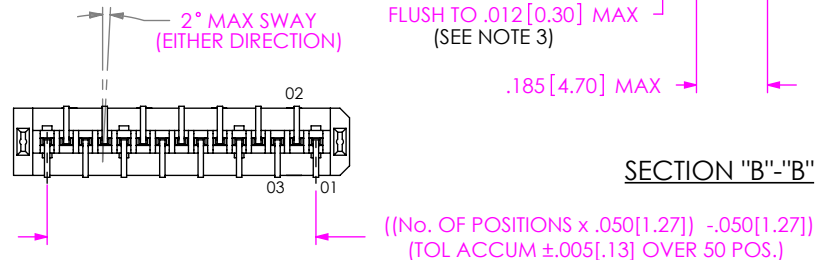


FIG 2  
SURFACE MOUNT  
(TFM-115-02-X-S-XX SHOWN)  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

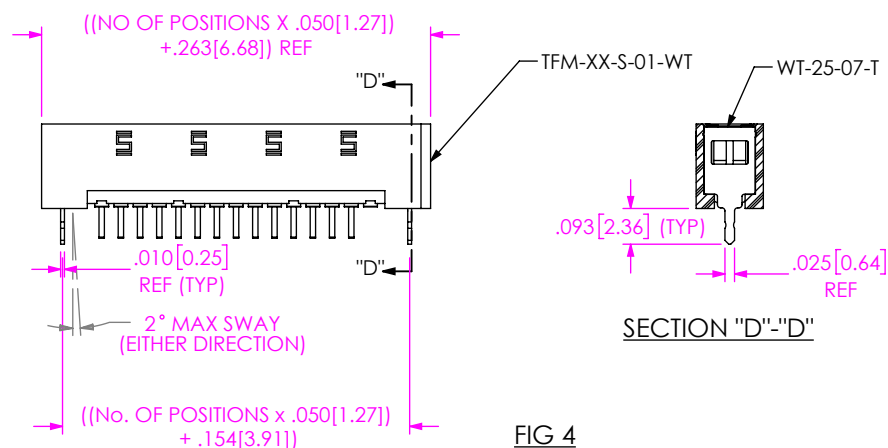


FIG 4  
-WT OPTION  
(TFM-114-01-X-S-WT SHOWN)  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

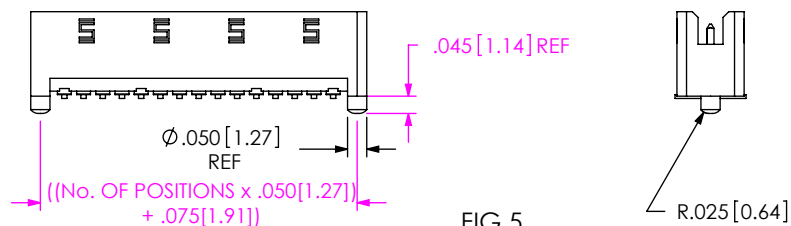


FIG 5  
-A OPTION  
(TFM-115-02-X-S-A SHOWN)  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

NOTE: "R" = OVERALL LENGTH REF  
 "S" = (( "R" - .216[5.49]) /2) ±.020[.51]

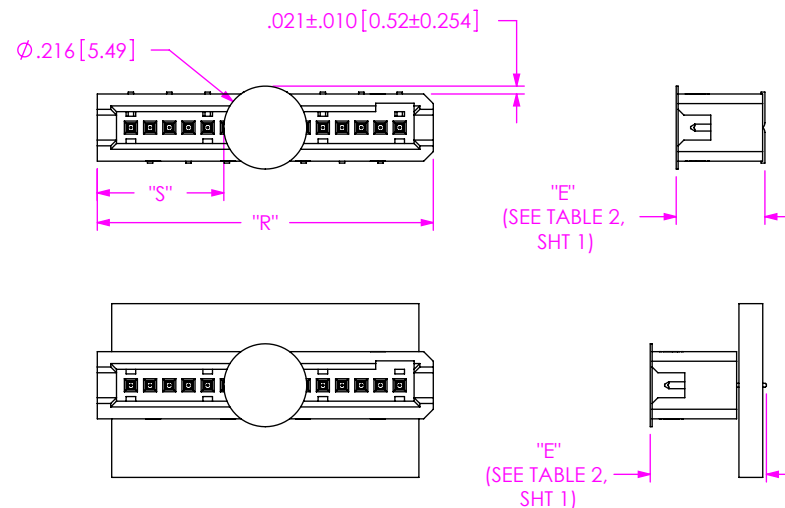


FIG 3  
-K: POLYIMIDE FILM PAD  
(TFM-115-02-X-S-K SHOWN)

NOTE: "M" = (No. OF POSITIONS X .050[1.27]) + .125[3.18] REF  
 WITH -WT "M" = (No. OF POSITIONS X .050[1.27]) + .263[6.68] REF  
 "P" = (( "M" - .375[9.53]) / 2) ±.020[.51]

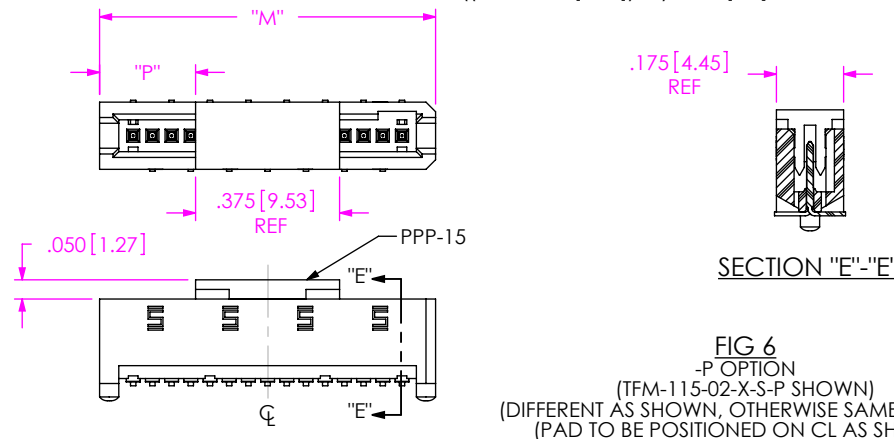


FIG 6  
-P OPTION  
(TFM-115-02-X-S-P SHOWN)  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)  
(PAD TO BE POSITIONED ON CL AS SHOWN)

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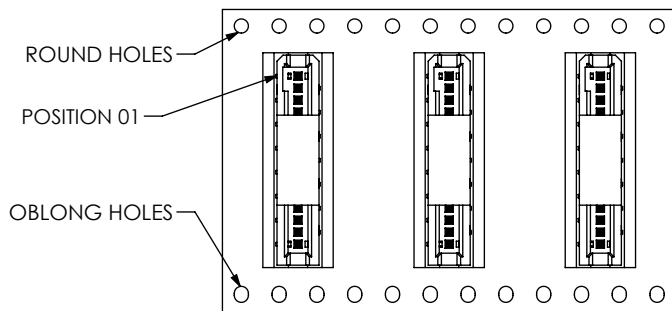


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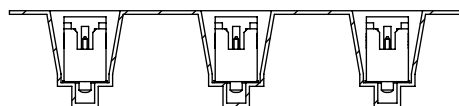
DESCRIPTION:  
.050 C.L. SINGLE ROW SHROUDED TERMINAL STRIP

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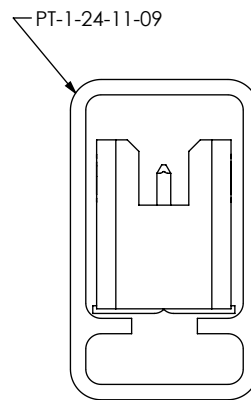
BY: D. SCHMELZ	8/21/2008	SHEET 2 OF 3
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USER DIRECTION OF UN-REELING  
POCKET NOT DETAILED



TAPE AND REEL VIEW



PACKAGING TUBE VIEW

NOTES:

1. USE PT-1-24-11-09 TUBE AND (2) TP-09.
2. USE PT-1-24-03-09 TUBE AND (2) TP-09 FOR -P AND -K OPTIONS.
3. LOAD TUBE WITH 1ST POSITION IN SAME DIRECTION AS ARROW

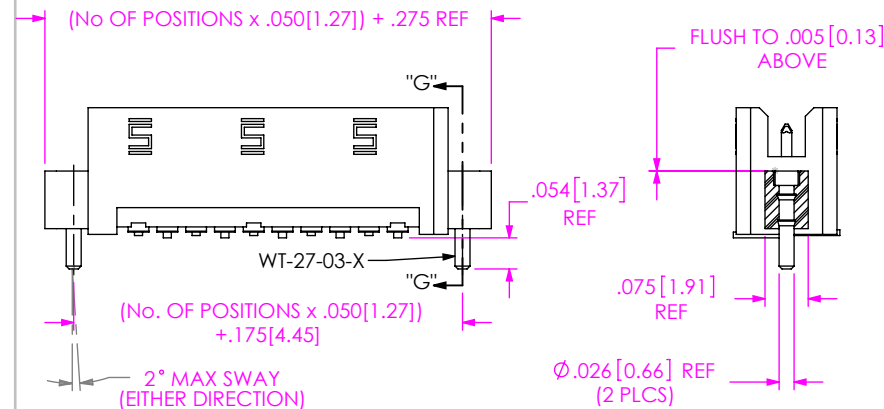


FIG 8  
\*\* -SN OPTION  
(TFM-110-02-X-S-SN SHOWN)  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1)

\*\* NOT TOOLED

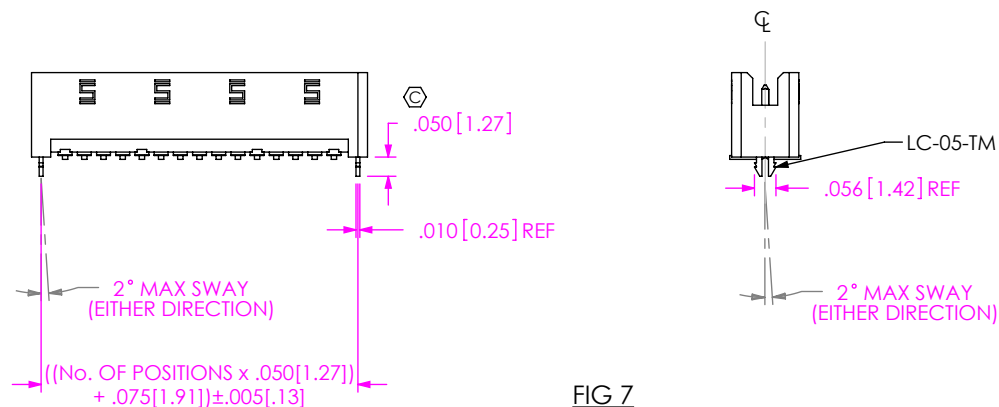


FIG 7  
-LC OPTION  
(TFM-115-02-X-S-LC SHOWN)  
(DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 2)

\* INSPECT ONLY WHEN APPLICABLE WITH RESPECT TO ASSEMBLY OPTION

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BY: D. SCHMELZ 8/21/2008 SHEET 3 OF 3