

DO NOT  
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THIS PRINT

TABLE 1 - SOLDERBALL PARTS ONLY

|   |                               |       |       |       |       |
|---|-------------------------------|-------|-------|-------|-------|
| T | PART (POSITION)               | 20    | 30    | 40    | 50    |
| C | MAX COPLANARITY               | .0040 | .0080 | .0080 | .0100 |
|   | MAX T/B BOW *                 | .0020 | .0020 | .0020 | .0025 |
|   | * AFTER SOLDERBALL ATTACHMENT |       |       |       |       |

$(\text{No OF POS} \times .0500[1.270]) + .100[2.54] \text{ REF}$   
 $(\text{No OF POS} - 1) \times .0500[1.270] \quad .0350[0.889] \text{ REF}$

$$\frac{C}{T} (\text{No OF ROWS} - 1) \times .0500 [1.270]$$

```

02
01
09(PIN # = NO. OF ROWS + 1)

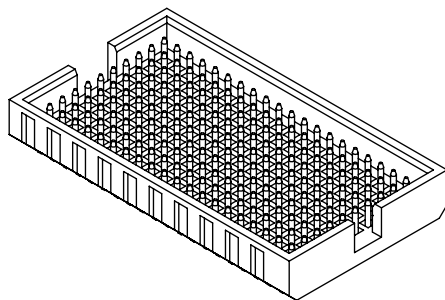
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$$(\text{No OF ROWS} \times .0500[1.270]) + .120[3.05] \text{ REF} -$$

FIG 1  
YFT-20-05-X-10-SB SHOWN

Diagram illustrating the cross-sectional view of a YFTP-XX-X-X component. The component features a series of vertical fins or teeth. Key dimensions and labels are indicated:

- Overall width:  $.149 [3.78] \text{ REF}$
- Overall height:  $.018 [0.46] \text{ REF}$
- Feature label: YFTP-XX-X-X
- Feature label: "A"
- Feature label: "A"
- Feature label:  $1380 [3.5]$



YFT-XX-05-X-XX-SB-XX

NO OF POSITIONS —  
-20 THRU -50  
(MULTIPLES OF 10 ONLY)

LEAD STYLE

**PLATING SPECIFICATION**

- G: GOLD (USE T-1R24-05B-G-1)
- H: HEAVY GOLD (USE T-1R24-05B-H-1)
- E: EXTRA HEAVY GOLD  
(USE T-1R24-05B-E-1)

OPTION  
-K: KAPTON PAD OPTION  
(SEE TABLE 3 & FIG. 4, SHEET 2)  
-TR: TAPE & REEL

OPTION   
-SB: SOLDER BALLS: 37% PB/63% SN  
(USE SDB-030-6337)

**ROW SPECIFICATION**  
 -10: TEN ROWS (USE YFTP-XX-X)  
 -08: EIGHT ROWS (USE YFTP-XX-X)  
 -05: FIVE ROWS (USE YFTP-XX-X)  
 -06: SIX ROWS (USE YFTP-XX-X)  
 (AVAILABLE IN 20 POS. ONLY)  
 -03: THREE ROWS (USE YFTP-XX-X)  
 (AVAILABLE IN 20 POS. ONLY)

T-1R24-05B-X-1

.079[2.01] REF  
( SEE IN-PROCESS, SHEET 2)

2° MAX SWAY  
(ANY DIRECTION)

18[0.46] REF

Ø.030[.76] REF SOLDERBALL  
SDB-030-XXXX

SECTION "A"-"A"

NOTES:

1. NOTE DELETED.
2. ☉ REPRESENTS A CRITICAL DIMENSION.
3. BURR ALLOWANCE: .0015 MAX.
4. NOTE DELETED.
5. MINIMUM PUSHOUT FORCE: .5 LB.
6. NOTE DELETED.
7. MAXIMUM ALLOWABLE DISTANCE FOR SOLDER WICKING UP TERMINAL.
8. .0040 MAX VARIATION BETWEEN SOLDERBALLS.
9. REFER TO VISUAL INSPECTION BOARD FOR SOLDERBALL APPEARANCE CHECKS.
10. THE DISTANCE FROM THE CENTER OF ANY SOLDERBALL TO THE CENTER OF ANY ADJACENT INNER PEG SHALL BE .025 ± .005.
11. NOTE DELETED.
12. TRAY PACKAGING CAN BE SUBSTITUTED FOR TUBES.

UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:

| DECIMALS           | ANGLES        |
|--------------------|---------------|
| .XX: $\pm .01$     | $\pm 2^\circ$ |
| .XXX: $\pm .005$   |               |
| .XXXX: $\pm .0020$ |               |

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**MATERIAL:** DO NOT SCALE DRAWING  
INSULATOR: LCP, COLOR: BLACK  
TERMINAL: BRASS AND ALLOY 260

SHEET SCALE: 1.875:1

DESCRIPTION:  
Flex, Y, Z, .050 CENTERLINE TERMINAL ASSEMBLY

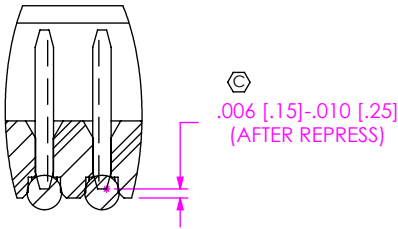
DWG. NO. YFT-XX-05-X-XX-SB-XX

|            |         |              |
|------------|---------|--------------|
| BY: ERIC M | 5/27/99 | SHEET 1 OF 2 |
|------------|---------|--------------|



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IN-PROCESS WITHOUT SOLDERBALLS



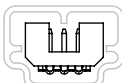
| TABLE 2         |       |       |       |       |
|-----------------|-------|-------|-------|-------|
| PART (POSITION) | 20    | 30    | 40    | 50    |
| MAX T/B BOW     | .0015 | .0020 | .0020 | .0020 |

PACKAGING TUBE  
(SEE NOTE 12)

| TABLE 4    |               |       |
|------------|---------------|-------|
| ROW OPTION | TUBE          | PLUG  |
| -03        | PT-1-24-01-59 | TP-24 |
| -05        | PT-1-24-01-61 | TP-03 |
| -06        | PT-1-24-14-29 | TP-07 |
| -08        | PT-1-24-02-09 | TP-07 |
| -10        | PT-1-24-16-29 | TP-07 |

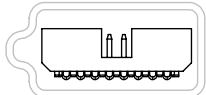
[PLACE PARTS IN RESPECTIVE TUBES SIMILAR TO SHOWN BELOW]

-03 ROW

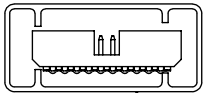


PT-1-24-01-59

-08 ROW



PT-1-24-02-09



PT-1-24-16-29

-10 ROW

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DO NOT SCALE DRAWING

SHEET SCALE: 1.875:1



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e-Mail: info@SAMTEC.com code: 55322

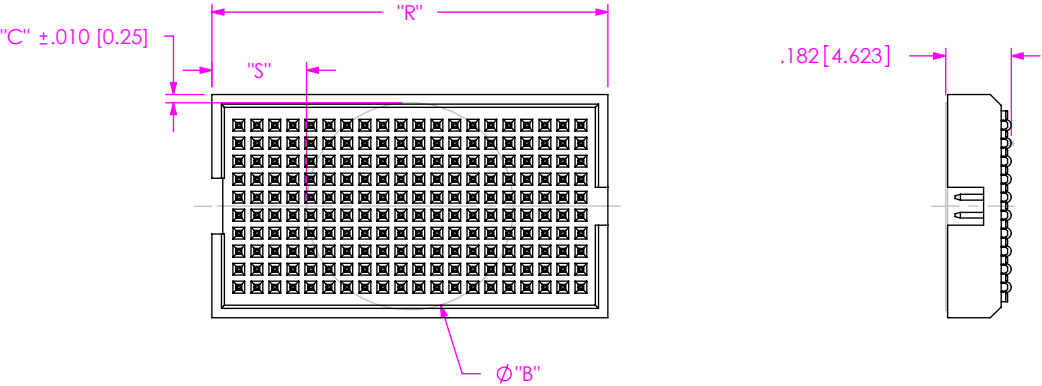
DESCRIPTION:  
Flex, Y, Z, .050 CENTERLINE TERMINAL ASSEMBLY

DWG. NO.  
YFT-XX-05-X-XX-SB-XX

BY: ERIC M 5/27/99 SHEET 2 OF 2

FIG 2

-K: KAPTON PAD OPTION  
(YFT-120-05-X-08-K SHOWN)



$R = (\text{No OF POS} \times .0500 [1.270]) + .100 [2.54]$   
 $S = ("R" - "B" / 2) \pm .020 [.51]$

| TABLE 3    |              |            |            |
|------------|--------------|------------|------------|
| ROW OPTION | "B"          | "C"        | KAPTON     |
| -05        | .404 [10.25] | .017 [.43] | K-850-650  |
| -08        | .575 [14.60] | .028 [.71] | K-850-650  |
| -10        | .650 [16.50] | .015 [.38] | K-1000-800 |
| -06        | .460 [11.68] | .020 [.51] | K-850-650  |
| -03        | .325 [8.26]  | .028 [.71] | K-850-650  |