**SMT & THROUGH-HOLE HEADER**

**SPECIFICATIONS**

For complete specifications and recommended PCB layouts see www.samtec.com/TFM or www.samtec.com/TFML.

Insulator Material: Black Liquid Crystal Polymer
Terminal Material: Phosphor Bronze
Plating: Au or Sn over 50 µ" (1.27 µm) Ni
Current Rating (TFM/TFML): 3.2 A per pin
Voltage Rating: 250 VAC mated with SFM
Operating Temp Range: -55 °C to +125 °C
RoHS Compliant: Yes

**PROCESSING**

Lead-Free Solderable: Yes
SMT Lead Coplanarity: (0.10 mm) .004" max (05-25) (0.15 mm) .006" max (30-50) (+.004" stencil solution may be available; contact IPG@samtec.com)

**RECOGNITIONS**

For complete scope of recognitions see www.samtec.com/quality

**APPLICATIONS**

TFM-DH to SFM-DH SHOWN
TFM to SFM-SH SHOWN

**MATED HEIGHTS**

<table>
<thead>
<tr>
<th>LEAD STYLE</th>
<th>TFM</th>
<th>SPM</th>
<th>MATED HEIGHT*</th>
</tr>
</thead>
<tbody>
<tr>
<td>–02</td>
<td>(6.35) .250</td>
<td>(6.13) .240</td>
<td>(11.81) .465</td>
</tr>
<tr>
<td>–12</td>
<td>(5.97) .235</td>
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</tr>
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<td>–22</td>
<td>(5.91) .390</td>
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</tr>
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*Processing conditions will affect mated height.

**LEAD STYLE**

TFM = Standard
TFML = Locking

**TYPE**

<table>
<thead>
<tr>
<th>STRIP</th>
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<tbody>
<tr>
<td>1</td>
<td>03, 04, 06, 08</td>
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**LEAD STYLES**

**SINGLE ROW**

<table>
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<tr>
<th>LEAD STYLE (T/H)</th>
<th>B</th>
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<tbody>
<tr>
<td>–01</td>
<td>(5.58) .220</td>
<td>(1.97) .078</td>
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(See website for –DS & –WT OAL)

**DOUBLE ROW**

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<td>(7.49) .295</td>
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*NA with 07, –DH or –S row option

**LEAD STYLE**

TFM = Standard
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**PLATING OPTION**

= 15 µ" (0.38 µm) Gold on post, Matte Tin on tail
(Call Samtec for E.L.P.™ plating option)

**OTHER SOLUTIONS**

- Lower cost plating options. See TFC Series.

**FILE NO. E111594**

**RECOGNITIONS**

Due to technical progress, all designs, specifications and components are subject to change without notice.

For complete specifications and recommended PCB layouts see www.samtec.com/TFM or www.samtec.com/TFML.

All parts within this catalog are built to Samtec’s specifications. Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.

**WWW.SAMTEC.COM**

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**Note:** Some sizes, styles and options are non-standard, non-returnable.

**Current Rating (TFM/SFM):** 3.2 A per pin

**Voltage Rating:** 250 VAC mated with SFM

**Operating Temp Range:** -55 °C to +125 °C

**RoHS Compliant:** Yes

For complete scope of recognitions see www.samtec.com/quality

**PROCESSING**

Lead-Free Solderable: Yes

SMT Lead Coplanarity: (0.10 mm) .004" max (05-25) (0.15 mm) .006" max (30-50) (+.004" stencil solution may be available; contact IPG@samtec.com)

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**PLATING OPTION**

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(Call Samtec for E.L.P.™ plating option)

**OTHER SOLUTIONS**

- Lower cost plating options. See TFC Series.
TFM, TFML SERIES

Surface mount or through-hole tails

Screw down option

Mates with SFM for coplanar mating

Weld tab option

Shrouded body for blind mating

ROW OPTION

- S = Single Row (TFM only)
- D = Double Row
- DH* = Double Horizontal (TFM lead style –02 only) (05 thru 50 positions only) (–TR option only available)

OPTION

Specify only –RA, –RE1 or –RE2

- RA = Right-angle (Lead style –01 only)
- RE1 = Right-angle Elevated for (1.58 mm) .062* PCB (Requires TFM lead style –01, –D row and –WT)
- RE2 = Right-angle Elevated for (2.36 mm) .093* PCB (Requires TFM lead style –01, –D row and –WT)

Specify only –A, –LC, –DS or –WT (Not available with –RA, –RE1 and –RE2 unless otherwise noted.)

- A = Alignment Pin
- LC = Locking Clip (Manual Placement required)
- DS = Dual Screw Down for (1.60 mm) .062* PCB (05, 07, 10, 15, 20, 25, 30, 35, 40 positions only) (TFM lead styles –01 and –02 only) (Requires –D row option) (Mates with SFM–DS option and SFSD/SFSDT –SS and –DS option only) (Not available with –A, –LC, –WT, –K, –P, –TR)
- WT = Weld Tab (TFM lead styles –01 and –02 only) (Required callout for –RE1 & –RE2) (Mates to SFSS/SFSD –SR and –DR option only) (05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50 positions only)

SMT lead styles only

Specify only –K or –P

- K = Polyimide Film Pick & Place Pad
- P = Plastic Pick & Place Pad (5 positions minimum) (Not available with 5 position with –WT)

Specify –TR last

- TR = Tape & Reel (Not available with –DS)

ALSO AVAILABLE

(Solder nail option
Other sizes
Other platings)

– RE1 & –RE2

- DS

– RE1

(1.31)
0.075
(0.51)
0.020
(1.27)
0.050
(6.48)
0.255
(0.51)
0.020
(1.91)
0.075

* Note: Weld tab is standard on –DH option. No need to specify –WT.

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