RUGGED TIGER EYE™ SYSTEMS
(1.27 mm) .050" PITCH

FEATUERES & BENEFITS

- High-Reliability Rugged Tiger Eye™ contact system
- Surface mount & through-hole tails
- Vertical & horizontal orientation
- Up to 8 Gbps of performance
- SET qualified product
- Extended Life Product™ (E.L.P.™) for high mating cycles to 2,500
- Discrete Wire assemblies available. Contact autosalesgroup@samtec.com for other solutions.

KEY SPECIFICATIONS (A-TFM/A-SFM)

<table>
<thead>
<tr>
<th>PITCH</th>
<th>STACK HEIGHTS</th>
<th>INSULATOR MATERIAL</th>
<th>CONTACT MATERIAL</th>
<th>PLATING</th>
<th>OPERATING TEMP RANGE</th>
<th>CURRENT RATING</th>
<th>VOLTAGE RATING</th>
<th>MAX CYCLES</th>
</tr>
</thead>
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<tr>
<td>1.27 mm</td>
<td>6 to 12 mm</td>
<td>Black LCP</td>
<td>BeCu (A-SFM) Phosphor Bronze (A-TFM)</td>
<td>Au or Sn over 50 µ&quot; (1.27 µm) Ni</td>
<td>-55 °C to +125 °C</td>
<td>3.2 A per pin (2 pins powered)</td>
<td>250 VAC</td>
<td>10,000</td>
</tr>
</tbody>
</table>

Due to technical progress, all designs, specifications and components are subject to change without notice.
SMT & THROUGH-HOLE TIGER EYE™ HEADER

(1.27 mm) .050" • A-TFM/A-TFML SERIES

SERIES | NO. PINS PER ROW | LEAD STYLE | PLATING STYLE | ROW OPTION | OPTIONS
--- | --- | --- | --- | --- | ---
A-TFM | Standard |
A-TFML | Locking (-01 & -02 lead style only) |
A-TFM | 03, 04, 06, 08 |
A-TFML (-01 & -02 only) |
05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50 |
(Standard sizes)

Specify LEAD STYLE from chart

Specify only –RA

Specify only –A, or –WT

Specify only –K or –P

Specify –TR last

SMT lead styles only

Polyimide Film Pick & Place Pad

Plastic Pick & Place Pad (5 positions min.)

Specify –TR last

Tape & Reel

LEAD STYLE (SMT) | MATED HEIGHT* |
--- | --- |
-02 | (6.35).250 |
-12 | (8.13).320 |
-22 | (9.91).390 |
-32 | (11.81).465 |

LEAD STYLE (T/H) | MATED HEIGHT* |
--- | --- |
-01 | (5.97).235 |
-03 | (5.97).235 |
-11 | (7.75).305 |
-13 | (7.75).305 |
-21 | (9.53).375 |
-23 | (9.53).375 |
-31 | (11.43).450 |

*Processing conditions will affect mated height.

MATED HEIGHTS*

LEAD STYLE (SMT) | A |
--- | --- |
-02 | (6.35).225 |
-12* | (7.75).295 |
-22* | (9.27).365 |
-32* | (11.18).440 |

* N/A with 07, -S row option

LEAD STYLE (T/H) | B | C |
--- | --- | --- |
-01 | (5.97).220 | (1.97).078 |
-03* | (5.97).220 | (2.27).109 |
-11* | (7.75).290 | (1.97).078 |
-13* | (7.75).290 | (2.27).109 |
-21* | (9.53).360 | (1.97).078 |
-23* | (9.53).360 | (2.27).109 |
-31* | (11.43).430 | (1.97).078 |

* Not Available with 07 or -S row option

**Note:**

Some lengths, styles and options are non-standard, non-returnable. Due to technical progress, all designs, specifications and components are subject to change without notice.

Samtec shall only comply with IATF-16949 on products it certifies as Automotive Custom Design “ACD” or on those designated with “A-.” Samtec part # prefix “A-” products are designed to Samtec’s specifications not customers’ specifications. Contact autosalesgroup@samtec.com with questions.

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