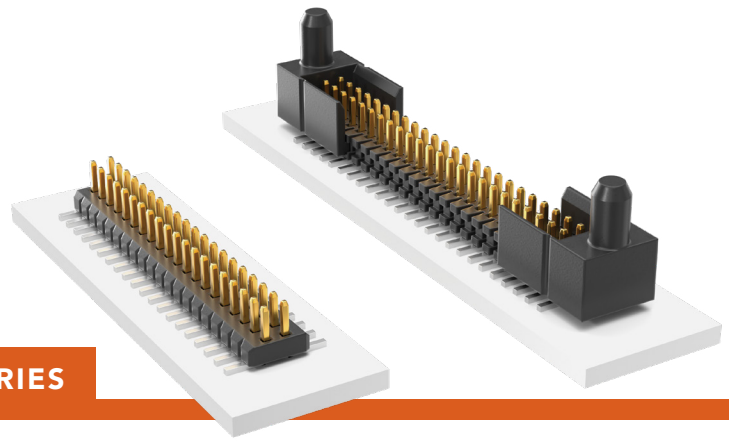


# SMT MICRO TERMINAL STRIPS

(1.00 mm) .0394" PITCH • FTMH/FTM SERIES



**FTMH**  
Mates:  
CLM, MLE

**FTM**  
Mates:  
CLM, MLE

## SPECIFICATIONS

**Insulator Material:**  
Black Liquid Crystal  
Polymer  
**Terminal Material:**  
Phosphor Bronze  
**Plating:**  
Sn or Au over  
50  $\mu$ " (1.27  $\mu$ m) Ni  
**Operating Temp Range:**  
-55 °C to +125 °C  
**Current Rating (FTMH/CLM):**  
3.1 A per pin  
(2 pins powered)  
**Voltage Rating:**  
FTMH: 270 VAC /382 VDC

## PROCESSING

**Lead-Free Solderable:**  
Yes  
**SMT Lead Coplanarity:**  
-DV: (0.10 mm) .004" max  
-DH: (0.10 mm) .004" max (05-25)  
(0.15 mm) .006" max (26-50)\*  
\*(.004" stencil solution  
may be available; contact  
ipg@samtec.com)

| FTMH              | 1           | NO. PINS PER ROW | LEAD STYLE                                                                                                                                                                                                 | PLATING OPTION                                                                                                        | ROW OPTION                                                                | FLEX SHROUD OPTION                                                                                                                                                                                                | OTHER OPTION                                                                                                                                                                                                                                                                                                                                                                                  |             |     |             |     |             |  |  |  |
|-------------------|-------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----|-------------|-----|-------------|--|--|--|
|                   |             | 02 thru 50       | -02<br>= (1.91 mm)<br>.075" Post<br>(Mates with MLE)<br><br>-03<br>= (1.65 mm)<br>.065" Post<br>(Mates with CLM)                                                                                           | -F<br>= Gold flash on post,<br>Matte Tin on tail<br><br>-L<br>= 10 μ" (0.25 μm)<br>Gold on post,<br>Matte Tin on tail | -DV<br>= Dual Vertical<br><br>-DH<br>= Dual Horizontal (5 positions min.) | (-DV only with 9 pins/row minimum)<br><br>-ES<br>= End Shroud<br><br>-EC<br>= End Shroud with Locking Clip (Manual placement required)<br><br>-EP<br>= End Shroud with Guide Post (Use only when mating with CLM) | -A<br>= Alignment Pin (3 positions min.)<br>Metal or plastic at Samtec discretion (-DV only)<br><br>-K<br>= (2.50 mm) .098" DIA<br>Polyimide Film Pick & Place Pad (-DH only)<br><br>-P<br>= Plastic Pick & Place Pad (6 positions min.) (-DV only)<br><br>-TR<br>= Tape & Reel<br><br>-FR<br>= Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) |             |     |             |     |             |  |  |  |
|                   |             |                  | <table><thead><tr><th>OPTION</th><th>B</th></tr></thead><tbody><tr><td>-ES</td><td>(1.57) .062</td></tr><tr><td>-EC</td><td>(4.06) .160</td></tr><tr><td>-EP</td><td>(5.49) .216</td></tr></tbody></table> |                                                                                                                       | OPTION                                                                    | B                                                                                                                                                                                                                 | -ES                                                                                                                                                                                                                                                                                                                                                                                           | (1.57) .062 | -EC | (4.06) .160 | -EP | (5.49) .216 |  |  |  |
| OPTION            | B           |                  |                                                                                                                                                                                                            |                                                                                                                       |                                                                           |                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                               |             |     |             |     |             |  |  |  |
| -ES               | (1.57) .062 |                  |                                                                                                                                                                                                            |                                                                                                                       |                                                                           |                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                               |             |     |             |     |             |  |  |  |
| -EC               | (4.06) .160 |                  |                                                                                                                                                                                                            |                                                                                                                       |                                                                           |                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                               |             |     |             |     |             |  |  |  |
| -EP               | (5.49) .216 |                  |                                                                                                                                                                                                            |                                                                                                                       |                                                                           |                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                               |             |     |             |     |             |  |  |  |
|                   |             |                  | <table><thead><tr><th>LEAD STYLE</th><th>A</th></tr></thead><tbody><tr><td>-02</td><td>(1.91) .075</td></tr><tr><td>-03</td><td>(1.65) .065</td></tr></tbody></table>                                      |                                                                                                                       | LEAD STYLE                                                                | A                                                                                                                                                                                                                 | -02                                                                                                                                                                                                                                                                                                                                                                                           | (1.91) .075 | -03 | (1.65) .065 |     |             |  |  |  |
| LEAD STYLE        | A           |                  |                                                                                                                                                                                                            |                                                                                                                       |                                                                           |                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                               |             |     |             |     |             |  |  |  |
| -02               | (1.91) .075 |                  |                                                                                                                                                                                                            |                                                                                                                       |                                                                           |                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                               |             |     |             |     |             |  |  |  |
| -03               | (1.65) .065 |                  |                                                                                                                                                                                                            |                                                                                                                       |                                                                           |                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                               |             |     |             |     |             |  |  |  |
|                   |             |                  |                                                                                                                                                                                                            |                                                                                                                       |                                                                           |                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                               |             |     |             |     |             |  |  |  |
| <b>-DV OPTION</b> |             |                  | <b>-DH OPTION</b>                                                                                                                                                                                          |                                                                                                                       |                                                                           |                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                               |             |     |             |     |             |  |  |  |

| FTM                                  | 1           | NO. PINS PER ROW                                           | LEAD STYLE                                                                                                                                                       | PLATING OPTION                                                                                               | DV                                                                                                                                                                    | FLEX SHROUD OPTION                                                                                                                                                    | OTHER OPTION                                                                                                                                                                                  |             |     |             |             |     |             |
|--------------------------------------|-------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----|-------------|-------------|-----|-------------|
|                                      |             | 02 thru 50<br>= Unshrouded<br><br>05 thru 46<br>= Shrouded | -02<br>= (1.91 mm)<br>.075" Post<br>(Mates with MLE)<br><br>-03<br>= (1.65 mm)<br>.065" Post<br>(Mates with CLM)                                                 | -F<br>= Gold flash on post, Matte Tin on tail<br><br>-L<br>= 10 μ" (0.25 μm) Gold on post, Matte Tin on tail |                                                                                                                                                                       | -S<br>= End Shroud (05 positions minimum). Molded or press-fit shroud at Samtec's discretion<br><br>-SA<br>= End Shroud with Alignment Pins (05 through 46 positions) | -P<br>= Plastic Pick & Place Pad (7 positions min.)<br><br>-TR<br>= Tape & Reel<br><br>-FR<br>= Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) |             |     |             |             |     |             |
|                                      |             |                                                            | <table><thead><tr><th>OPTION</th><th>C</th></tr></thead><tbody><tr><td>-S</td><td>(4.00) .157</td></tr><tr><td>-SA</td><td>(7.00) .276</td></tr></tbody></table> |                                                                                                              | OPTION                                                                                                                                                                | C                                                                                                                                                                     | -S                                                                                                                                                                                            | (4.00) .157 | -SA | (7.00) .276 |             |     |             |
| OPTION                               | C           |                                                            |                                                                                                                                                                  |                                                                                                              |                                                                                                                                                                       |                                                                                                                                                                       |                                                                                                                                                                                               |             |     |             |             |     |             |
| -S                                   | (4.00) .157 |                                                            |                                                                                                                                                                  |                                                                                                              |                                                                                                                                                                       |                                                                                                                                                                       |                                                                                                                                                                                               |             |     |             |             |     |             |
| -SA                                  | (7.00) .276 |                                                            |                                                                                                                                                                  |                                                                                                              |                                                                                                                                                                       |                                                                                                                                                                       |                                                                                                                                                                                               |             |     |             |             |     |             |
|                                      |             |                                                            |                                                                                                                                                                  |                                                                                                              | <table><thead><tr><th>LEAD STYLE</th><th>D</th></tr></thead><tbody><tr><td>-02</td><td>(1.91) .075</td></tr><tr><td>-03</td><td>(1.65) .065</td></tr></tbody></table> |                                                                                                                                                                       |                                                                                                                                                                                               | LEAD STYLE  | D   | -02         | (1.91) .075 | -03 | (1.65) .065 |
| LEAD STYLE                           | D           |                                                            |                                                                                                                                                                  |                                                                                                              |                                                                                                                                                                       |                                                                                                                                                                       |                                                                                                                                                                                               |             |     |             |             |     |             |
| -02                                  | (1.91) .075 |                                                            |                                                                                                                                                                  |                                                                                                              |                                                                                                                                                                       |                                                                                                                                                                       |                                                                                                                                                                                               |             |     |             |             |     |             |
| -03                                  | (1.65) .065 |                                                            |                                                                                                                                                                  |                                                                                                              |                                                                                                                                                                       |                                                                                                                                                                       |                                                                                                                                                                                               |             |     |             |             |     |             |
| Shrouded options removed for clarity |             |                                                            |                                                                                                                                                                  |                                                                                                              |                                                                                                                                                                       |                                                                                                                                                                       |                                                                                                                                                                                               |             |     |             |             |     |             |

## ALSO AVAILABLE

Contact Samtec

End shrouds with board locks  
Molded end shrouds for  
05 through 08 positions  
Other platings



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