

# SMT MICRO TERMINAL STRIPS

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



**FTMH**  
Mates:  
CLM, MLE

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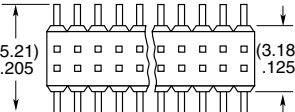
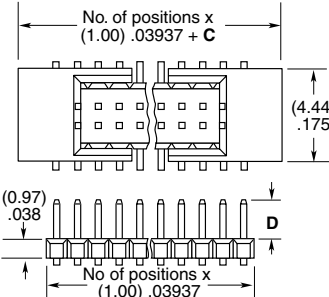
## SPECIFICATIONS

**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  $^{\circ}$ C to +125  $^{\circ}$ 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)                                                                                                                                                       | -F<br>= Gold flash on post,<br>Matte Tin on tail                 | -DV<br>= Dual Vertical                         | (-DV only with 9 pins/row minimum)                                     | -A<br>= Alignment Pin<br>(3 positions min.)<br>Metal or plastic at Samtec discretion<br>(-DV only)           |             |     |             |     |             |  |  |  |
|                                     |             |                  | -03<br>= (1.65 mm)<br>.065" Post<br>(Mates with CLM)                                                                                                                                                       | -L<br>= 10 μm<br>(0.25 μm)<br>Gold on post,<br>Matte Tin on tail | -DH<br>= Dual Horizontal<br>(5 positions min.) | -ES<br>= End Shroud                                                    | -K<br>= (2.50 mm)<br>.098" DIA<br>Polyimide Film<br>Pick & Place Pad<br>(-DH only)                           |             |     |             |     |             |  |  |  |
|                                     |             |                  |                                                                                                                                                                                                            |                                                                  |                                                | -EC<br>= End Shroud with Locking Clip<br>(Manual placement required)   | -P<br>= Plastic Pick & Place Pad<br>(6 positions min.)<br>(-DV only)                                         |             |     |             |     |             |  |  |  |
|                                     |             |                  |                                                                                                                                                                                                            |                                                                  |                                                | -EP<br>= End Shroud with Guide Post<br>(Use only when mating with CLM) | -TR<br>= Tape & Reel                                                                                         |             |     |             |     |             |  |  |  |
|                                     |             |                  |                                                                                                                                                                                                            |                                                                  |                                                |                                                                        | -FR<br>= Full Reel Tape & Reel<br>(must order max. quantity per reel;<br>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 |                  |                                                                                                                                                                                                            |                                                                  |                                                |                                                                        |                                                                                                              |             |     |             |     |             |  |  |  |
|                                     |             |                  |                                                                                                                                                                                                            |                                                                  |                                                |                                                                        |                                                                                                              |             |     |             |     |             |  |  |  |
| Shrouded option removed for clarity |             |                  | -DV OPTION                                                                                                                                                                                                 |                                                                  | -DH OPTION                                     |                                                                        |                                                                                                              |             |     |             |     |             |  |  |  |

| 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,<br>Matte Tin on tail<br><br>-L<br>= 10 μ" (0.25 μm)<br>Gold on post,<br>Matte Tin on tail |    | -S<br>= End Shroud (05 positions minimum).<br>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)<br/>.157</td></tr><tr><td>-SA</td><td>(7.00)<br/>.276</td></tr></tbody></table>      |                                                                                                                       |    |                                                                                                                                                                          |                                                                                                                                                                                               | OPTION     | C | -S  | (4.00)<br>.157 | -SA | (7.00)<br>.276 |
| OPTION                                                                              | C              |                                                            |                                                                                                                                                                               |                                                                                                                       |    |                                                                                                                                                                          |                                                                                                                                                                                               |            |   |     |                |     |                |
| -S                                                                                  | (4.00)<br>.157 |                                                            |                                                                                                                                                                               |                                                                                                                       |    |                                                                                                                                                                          |                                                                                                                                                                                               |            |   |     |                |     |                |
| -SA                                                                                 | (7.00)<br>.276 |                                                            |                                                                                                                                                                               |                                                                                                                       |    |                                                                                                                                                                          |                                                                                                                                                                                               |            |   |     |                |     |                |
|  |                |                                                            | <table><thead><tr><th>LEAD STYLE</th><th>D</th></tr></thead><tbody><tr><td>-02</td><td>(1.91)<br/>.075</td></tr><tr><td>-03</td><td>(1.65)<br/>.065</td></tr></tbody></table> |                                                                                                                       |    |                                                                                                                                                                          |                                                                                                                                                                                               | LEAD STYLE | D | -02 | (1.91)<br>.075 | -03 | (1.65)<br>.065 |
| LEAD STYLE                                                                          | D              |                                                            |                                                                                                                                                                               |                                                                                                                       |    |                                                                                                                                                                          |                                                                                                                                                                                               |            |   |     |                |     |                |
| -02                                                                                 | (1.91)<br>.075 |                                                            |                                                                                                                                                                               |                                                                                                                       |    |                                                                                                                                                                          |                                                                                                                                                                                               |            |   |     |                |     |                |
| -03                                                                                 | (1.65)<br>.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.