



(1.27 mm) .050"

# SMT MICRO HEADER

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?FTSH](http://www.samtec.com?FTSH)

### Insulator Material:

Black Liquid Crystal Polymer

### Terminal Material:

Phosphor Bronze

### Plating:

Sn or Au over 50 μ" (1.27 μm) Ni

### Current Rating (FTSH/CLP):

3.4 A per pin

(2 pins powered)

### Operating Temp Range:

-55 °C to +125 °C

### RoHS Compliant:

Yes

## PROCESSING

### Lead-Free Solderable:

Yes

### SMT Lead Coplanarity:

-MT & -DV Tail Option:  
(0.10 mm) .004" max (02-25)

-MT & -DH Tail Option:  
(0.15 mm) .006" max (26-50)

## RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



## ALSO AVAILABLE (MOQ Required)

- Molded Pick & Place pads
  - Latches
  - Other platings
- Contact Samtec.

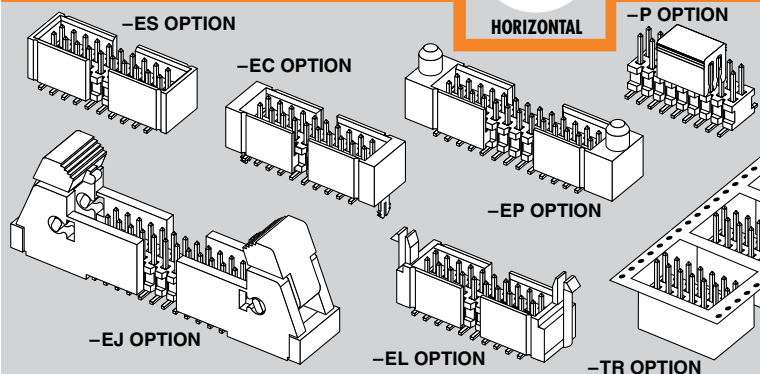
**Note:** Some sizes, styles and options are non-standard, non-returnable.

**Note:** See SFM/TFM for positive alignment feature.

**Board Mates:**  
CLP, FLE

**Cable Mates:**  
FFSD, FFTP

## OPTIONS

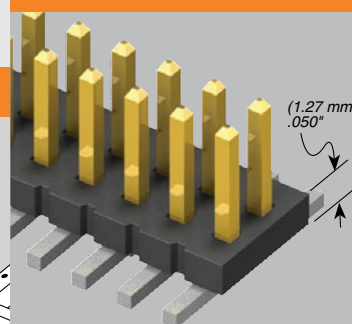


## APPLICATIONS



HORIZONTAL

## OTHER SOLUTIONS



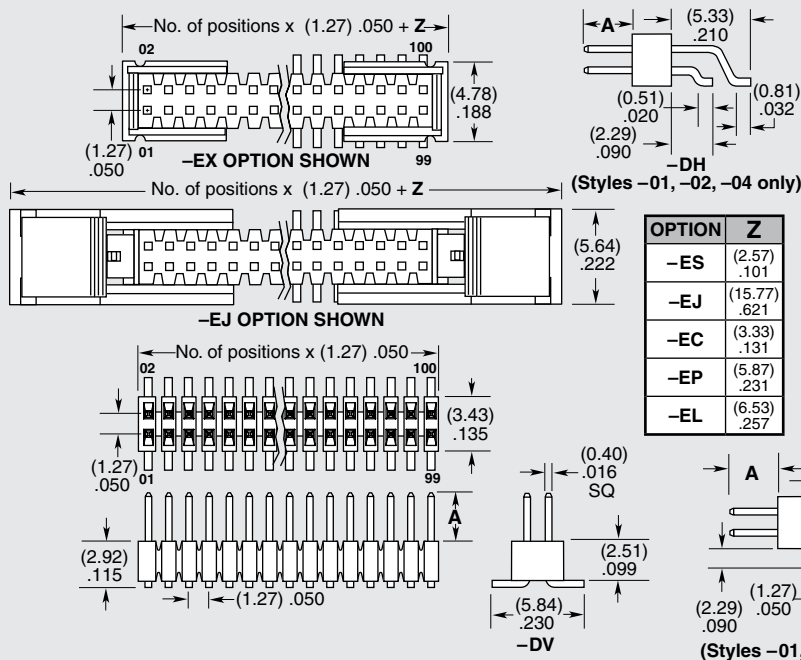
Ultra-low profile option available.  
End Shrouds available.  
Call for FTS Series specifications.

FTSH

1

NO. PINS  
PER ROWLEAD  
STYLE

02 thru 50



**-01**  
= (3.05 mm) .120" Post  
(Mates with FFSD, CLP-DH)

**-02**  
= (1.91 mm) .075" Post  
(Mates with FLE)

**-03**  
= (1.65 mm) .065" Post  
(Mates with CLP-D)

**-04**  
= (3.81 mm) .150" Post

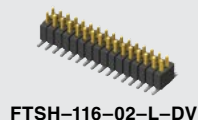
**-05**  
= (4.32 mm) .170" Post  
(Mates with CLP-BE)

LEAD STYLE	A
-01	(3.05) .120
-02	(1.91) .075
-03	(1.65) .065
-04	(3.81) .150
-05	(4.32) .170

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[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

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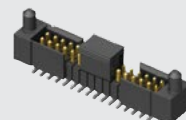
FTSH-116-02-L-DV



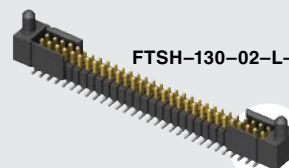
FTSH-110-01-F-DV



FTSH-112-02-L-DH

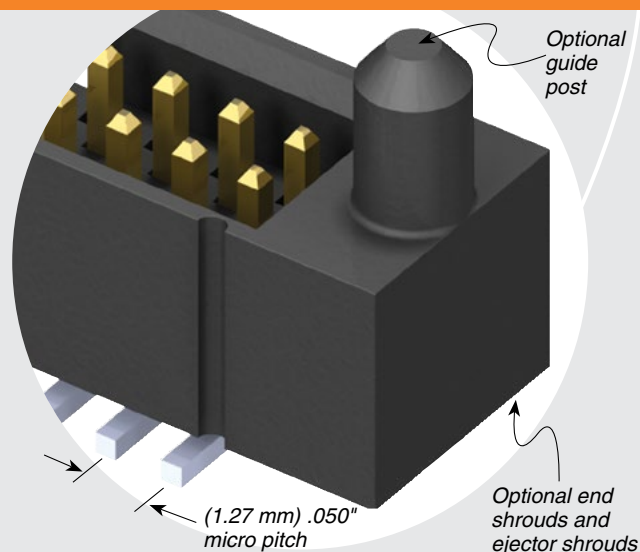
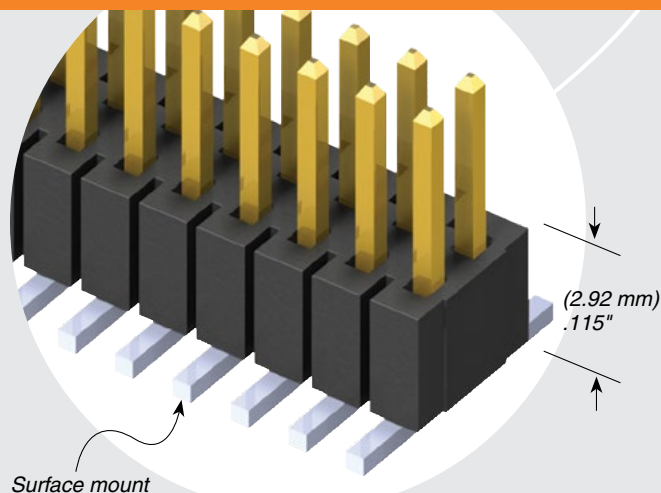


FTSH-116-03-L-DV-EP-P



FTSH-130-02-L-DV-EP

## FTSH SERIES



### PLATING OPTION

**-F**  
= Gold flash on post, Matte Tin on tail

**-L**  
= 10  $\mu$ m (0.25  $\mu$ m) Gold on post, Matte Tin on tail

### TAIL OPTION

**-DV**  
= Double Vertical

**-DH**  
= Double Horizontal (Styles -01, -02 & -04 only)

**-MT**  
= Mixed Technology (Styles -01, -02 & -04 only)

### OPTION

Leave Blank for -DH & -MT

**-"XXX"**  
= Polarized Position (Specify position of omitted pin) (Not available with -EX options)

### FLEX SHROUD OPTIONS

(Style -02 & -03 only, -DH & -MT not available)  
9 pins/row minimum  
(Other positions available. Call Samtec.)

**-ES**  
= End Shroud

**-EC**  
= End Shroud with Locking Clip (Manual placement required)

**-EP**  
= End Shroud with Guide Post

**-EL**  
= End Shroud with Board Lock (Boards are positively locked and cannot be unmated)

**-EJ**  
= Ejector Shroud (Style -01 only)  
-DH & -MT not available  
10 pins/row minimum  
25 pins/row maximum

### OTHER OPTIONS

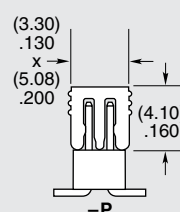
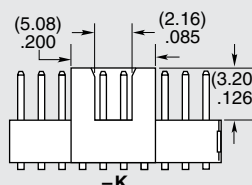
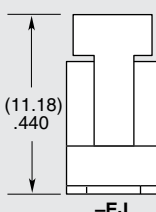
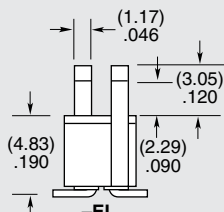
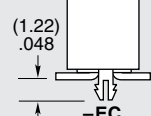
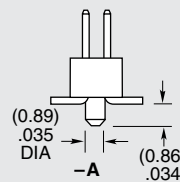
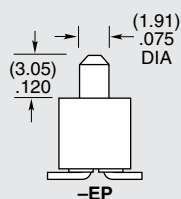
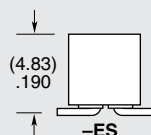
**-K**  
= Keying Shroud (For mating with FFSD Style -01 only and 05, 08, 10, 13, 17, 20 & 25 pins/row only. 13, 17, 20 & 25 pins/row only with -EJ option) (-DV only)

**-A**  
= Alignment Pin (-DV 3 positions min.) (-DH 5 positions min.) (Metal or plastic at Samtec discretion)

**-C**  
= (5.00 mm) .197" DIA Polyimide film Pick & Place Pad (-DH only)

**-P**  
= Pick & Place Pad (-DV 4 positions min.) (-DH & -MT not available)

**-TR**  
= Tape & Reel Packaging (Flex Shroud options not available except -ES & -EJ)



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