

**FTSH SERIES**

**(1.27 mm) .050"**

# THROUGH-HOLE MICRO HEADER

## SPECIFICATIONS

For complete specifications 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 μm (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

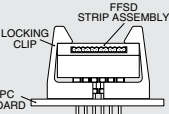
## RECOGNITIONS

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



## LOCKING CLIP

For single mating cycle with the FFSD. Specify -LC after tail option. Lead Style -01 and 10 pins/row minimum. 5-9 pins/row not available in combination with keying shroud (-K).



## ALSO AVAILABLE (MOQ Required)

- Molded Pick & Place pads
- Other platings

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

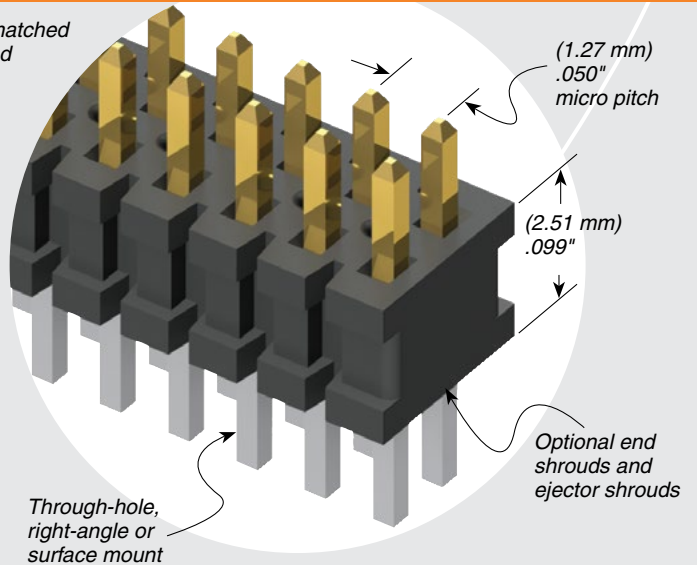
Some sizes, styles and options are non-standard, non-returnable.

**Board Mates:** CLP, FLE

**Cable Mates:** FFSD, FFTP

Impedance matched for high-speed applications (Mated with CLP Series)

Mates with socket strips or IDC cable



## HIGH-SPEED CHANNEL PERFORMANCE

Rating based on Samtec reference channel. For full SI performance data visit [Samtec.com](http://Samtec.com) or contact [SIG@samtec.com](mailto:SIG@samtec.com)

**8**  
Gbps

| FTSH       | 1 | NO. PINS PER ROW | LEAD STYLE                    | PLATING OPTION   | D | OPTION  | TAIL OPTION  | OTHER OPTIONS   |
|------------|---|------------------|-------------------------------|--|---|---|--|---|
| 02 thru 50 |   |                  | Specify LEAD STYLE from chart | -F = Gold flash on post, Matte Tin on tail<br>-L = 10 μm (0.25 μm) Gold on post, Matte Tin on tail |   | Leave blank for Right-angle<br>-“XXX” = Polarized Position (Specify position of omitted pin) (Not available with -EX options) | Leave blank for straight tail<br>-RA = Right-angle | -ES = End Shroud (Style -02 & -03) 9 pins/row min.<br>-EP = End Shroud with Guide Post (Style -02 & -03) 9 pins/row min.<br>-EL = End Shroud with Board Lock (Style -02 & -03) 9 pins/row min.<br>-EJ = Ejector Shroud (Style -01 only) 10 pins/row min. 25 pins/row max. -RA not available<br>-K = Keying Shroud for mating with FFSD (Style -01 only, 05, 08, 10, 13, 15, 17, 20 & 25 pins/row only and 13, 17, 20 & 25 only with -EJ option) |

| LEAD STYLE | A           | MATES WITH | OPTION | Z            |
|------------|-------------|------------|--------|--------------|
| -01        | (3.05) .120 | FFSD       | -ES    | (1.55) .061  |
| -02        | (1.91) .075 | FLE        | -EJ    | (15.77) .621 |
| -03        | (1.65) .065 | CLP-D      | -EP    | (5.87) .231  |
| -04        | (3.81) .150 | N/A        | -EL    | (6.53) .257  |

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

# Mouser Electronics

Authorized Distributor

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## Samtec:

[FTSH-113-01-F-D-K](#) [FTSH-110-01-L-D-K](#) [FTSH-113-01-L-D-K](#) [FTSH-105-01-L-D-K](#) [FTSH-120-04-L-D-RA](#) [FTSH-105-01-L-D](#) [FTSH-105-01-F-D-K](#) [FTSH-110-01-L-D](#) [FTSH-105-01-L-D-RA-K](#) [FTSH-130-01-L-D](#) [FTSH-125-04-L-D-RA](#) [FTSH-105-01-F-D](#) [FTSH-106-01-L-D](#) [FTSH-110-01-L-D-EJ](#) [FTSH-113-04-L-D-RA](#) [FTSH-120-03-F-D](#) [FTSH-110-02-L-D-RA](#) [FTSH-111-01-L-D](#) [FTSH-118-01-F-D](#) [FTSH-118-02-F-D-RA](#) [FTSH-118-04-L-D](#) [FTSH-104-01-S-D](#) [FTSH-104-03-F-D](#) [FTSH-106-01-L-D-RA](#) [FTSH-113-01-F-D-RA](#) [FTSH-123-01-L-D](#) [FTSH-139-01-L-D-RA](#) [FTSH-106-01-F-D-K](#) [FTSH-120-01-F-D-K](#) [FTSH-109-01-L-D](#) [FTSH-114-01-F-D](#) [FTSH-114-02-F-D](#) [FTSH-104-02-F-D](#) [FTSH-107-01-S-D-K](#) [FTSH-110-01-F-D-RA-K](#) [FTSH-106-02-F-D](#) [FTSH-110-01-F-D-K](#) [FTSH-128-02-L-D](#) [FTSH-106-02-F-D-RA](#) [FTSH-108-01-L-D](#) [FTSH-119-01-F-D](#) [FTSH-110-01-L-D-RA](#) [FTSH-112-01-L-D-RA](#) [FTSH-140-04-L-D](#) [FTSH-125-01-F-D](#) [FTSH-117-01-L-D](#) [FTSH-116-01-L-D](#) [FTSH-107-01-L-D](#) [FTSH-108-04-F-D](#) [FTSH-113-01-L-D](#) [FTSH-113-01-L-D-EJ-K](#) [FTSH-125-01-F-D-K](#) [FTSH-103-01-F-D](#) [FTSH-105-04-LM-D](#) [FTSH-113-01-F-D](#) [FTSH-113-01-L-D-RA](#) [FTSH-105-02-F-D](#) [FTSH-125-01-F-D-RA](#) [FTSH-128-02-F-D-RA](#) [FTSH-117-01-L-D-RA](#) [FTSH-145-02-F-D-RA](#) [FTSH-104-01-L-D-RA](#) [FTSH-102-01-F-D](#) [FTSH-109-01-F-D-RA](#) [FTSH-103-03-F-D](#) [FTSH-110-04-L-D-RA](#) [FTSH-108-01-L-D-RA](#) [FTSH-106-04-L-D-RA](#) [FTSH-115-01-L-D-RA](#) [FTSH-115-04-L-D](#) [FTSH-120-01-L-D-EJ-K](#) [FTSH-118-01-L-D-RA](#) [FTSH-120-01-L-D-RA](#) [FTSH-124-04-L-D](#) [FTSH-120-02-L-D](#) [FTSH-102-02-F-D](#) [FTSH-102-04-L-D-RA](#) [FTSH-105-02-L-D-RA](#) [FTSH-105-03-L-D](#) [FTSH-110-01-F-D-RA](#) [FTSH-115-01-L-D](#) [FTSH-135-04-L-D-RA](#) [FTSH-103-02-L-D](#) [FTSH-110-01-F-D-007-K](#) [FTSH-109-04-L-D-RA](#) [FTSH-108-01-L-D-K](#) [FTSH-122-02-F-D-RA](#) [FTSH-105-04-F-D](#) [FTSH-107-02-L-D](#) [FTSH-105-01-L-D-RA](#) [FTSH-107-01-L-D-K](#) [FTSH-106-04-L-D](#) [FTSH-110-04-L-D](#) [FTSH-111-01-L-D-RA](#) [FTSH-105-04-F-D-RA](#) [FTSH-118-02-F-D](#) [FTSH-105-01-F-D-007-K](#) [FTSH-125-04-L-D](#) [FTSH-113-01-LM-D-K](#) [FTSH-120-04-L-D](#)