**SMT MICRO HEADER**

### SPECIFICATIONS

- **For complete specifications and recommended PCB layouts see 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)*
  - (.004" stencil solution may be available; contact IPG@samtec.com)

### RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality

### ALSO AVAILABLE (MOQ Required)

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

### OPTIONS

- **FTSH**
- **NO. PINS PER ROW**
- **LEAD STYLE**
- **Z**
- **EX OPTION**
- **EC OPTION**
- **EP OPTION**
- **EL OPTION**
- **EJ OPTION**
- **TR OPTION**

### BOARD MATES:

- CLP, FLE

### CABLE MATES:

- FFSD, FFTP

### APPLICATIONS

- **CLP**
- **FTSH**

### OTHER SOLUTIONS


### LEAD STYLE

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

### EXTENDED LIFE PRODUCT

10 YEAR MFG WITH 30 µ" GOLD HIGH MATING CYCLES

### Board Mates:

- CLP, FLE

### Cable Mates:

- FFSD, FFTP

### Notes:

- Some sizes, styles and options are non-standard, non-returnable.
- See SFM/TFM for positive alignment feature.

### Recognition:

For complete scope of recognitions see www.samtec.com/quality

### ALSO AVAILABLE (MOQ Required)

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

### 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)*
  - (.004" stencil solution may be available; contact IPG@samtec.com)

### Lead-Free Solderable:

- Yes

### RoHS Compliant:

- Yes

### Extended Life Product:

- 10 Year MFG with 30 µ" Gold High Mating Cycles

### Other Solutions:

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

### Lead Style:

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

### 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)*
- (.004" stencil solution may be available; contact IPG@samtec.com)

### SMT COPLANARITY:

- MT & -DV Tail Option: (0.10 mm) .004" max (02-25)
- MT & -DH Tail Option: (0.15 mm) .006" max (26-50)*
- (.004" stencil solution may be available; contact IPG@samtec.com)

### Molded Pick & Place pads:

Available.

### Latches:

Available.

### Other Platings:

Contact Samtec.

### Notes:

- Some sizes, styles and options are non-standard, non-returnable.
- See SFM/TFM for positive alignment feature.
FTSH SERIES

Optional end shrouds and ejector shrouds
Surface mount
(1.27 mm) .050” micro pitch
Optional guide post
(2.92 mm) .115”

FTSH–116–02–L–DV
FTSH–110–01–F–DV
FTSH–130–02–L–DV–EP
FTSH–112–02–L–DH

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

All parts within this catalog are built to Samtec’s specifications. Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.

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**PLATING OPTION**

- **F** = Gold flash on post, Matte Tin on tail
- **L** = 10 µ” (0.25 µm) 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**

- **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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