



(1.27 mm) .050"

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 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
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

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

See SFM/TFM for positive alignment feature.

Board Mates:
CLP, FLE

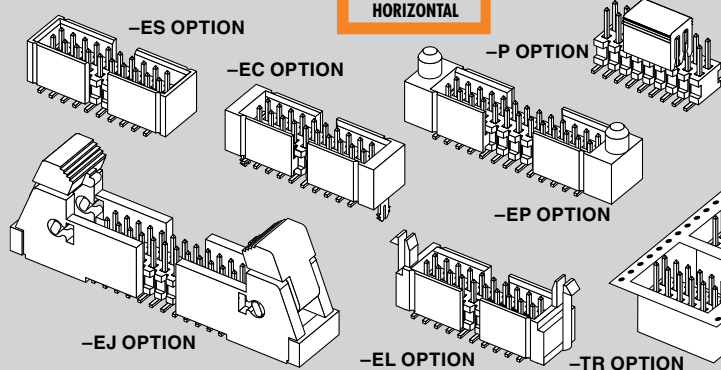
Cable Mates:
FFSD, FFTP

APPLICATIONS



HORIZONTAL

OPTIONS



OTHER SOLUTIONS



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

HIGH-SPEED CHANNEL PERFORMANCE

Rating based on Samtec reference channel. For full SI performance data visit Samtec.com or contact SIG@samtec.com

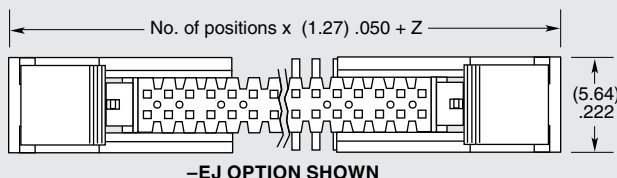
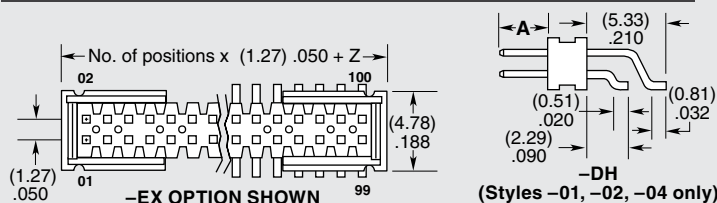
8
Gbps

FTSH

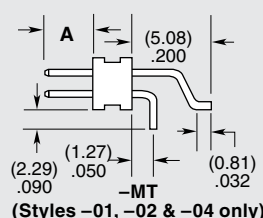
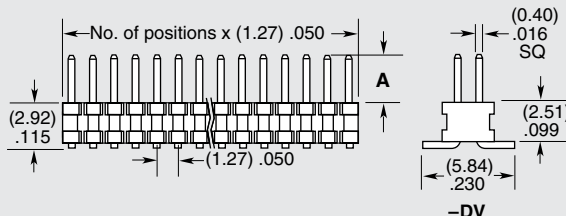
1

NO. PINS
PER ROWLEAD
STYLE

02 thru 50



OPTION	Z
-ES	(2.57) .101
-EJ	(15.77) .621
-EC	(3.33) .131
-EP	(5.87) .231
-EL	(6.53) .257



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

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

WWW.SAMTEC.COM

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.

FTSH-117-02-L-DV

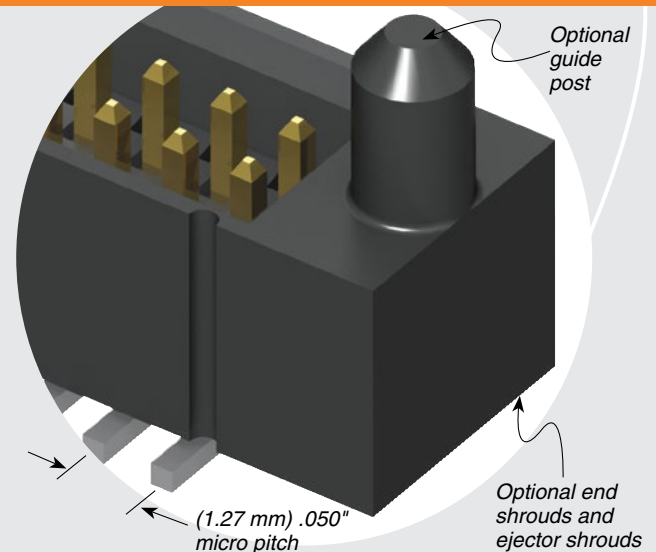
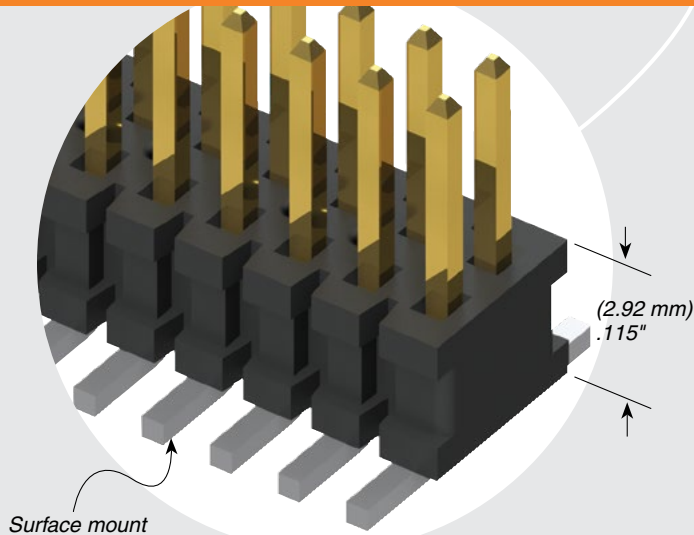
FTSH-113-02-L-DH-C

FTSH-150-02-L-DV-EP

FTSH-110-04-F-DV

FTSH-112-03-L-DV-EP-P

FTSH SERIES

PLATING
OPTION

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

-L
= 10 μ "
(0.25 μ 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, 15, 17, 20 & 25
pins/row only. 13, 17, 20 & 25
pins/row only with -EJ option)
(-DV only)

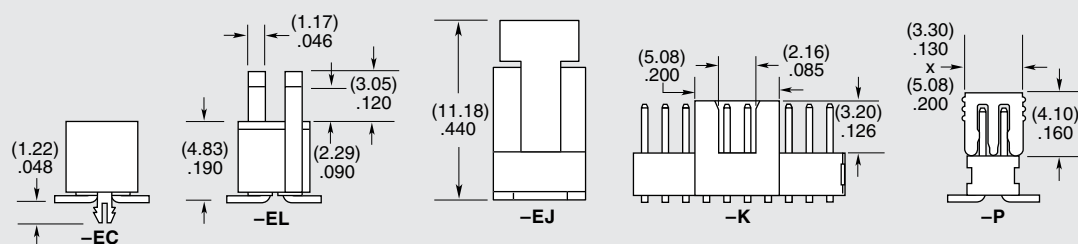
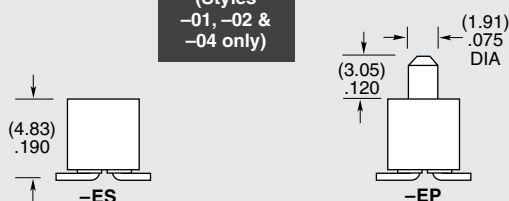
-A
= Alignment Pin
(-DV 3 positions min.)
(-DH 5 positions min.)
(Metal or plastic at
Samtec discretion)

-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)

-FR
= Full Reel Tape & Reel Packaging
(Must order maximum quantities
per reel. Contact Samtec
for parts per reel)



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