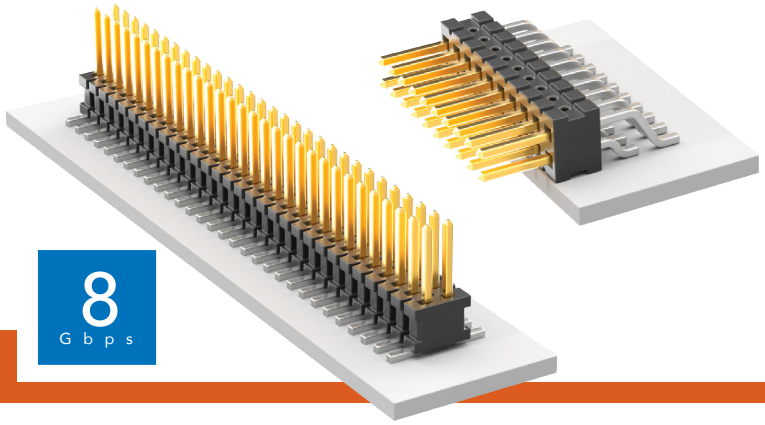
SURFACE MOUNT MICRO HEADER

(1.27 mm) .050" PITCH • FTSH SERIES



FTSH
Board Mates:
CLP, FLE

Cable Mates:
FFSD, FFTP

SPECIFICATIONS

Insulator Material:
Black Liquid Crystal Polymer
Terminal Material:
Phosphor Bronze
Plating:
Sn or Au over
50 µ" (1.27 µm) Ni
Operating Temp Range:
-55 °C to +125 °C
Current Rating (FTSH/CLP):
3.4 A per pin
(2 pins powered)
Current Rating (FTSH/FLE):
2.9 A per pin
(2 pins powered)
Voltage Rating:
280 VAC/396 VDC

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)

ALSO AVAILABLE
Contact Samtec

Molded Pick & Place pads
Latches
Other platings

10 YEAR MFG WITH 30 µ" GOLD
EXTENDED LIFE PRODUCT
HIGH MATING CYCLES

FTSH	–	1	NO. PINS PER ROW	–	LEAD STYLE	–	PLATING OPTION	–	TAIL OPTION	–	OPTION	–	FLEX SHROUD OPTIONS	–	OTHER OPTIONS

NO. PINS PER ROW
02 thru 50

LEAD STYLE
–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)

PLATING OPTION
–F
= Gold flash on post, Matte Tin on tail
–L
= 10 µ" (0.25 µm) Gold on post, Matte Tin on tail

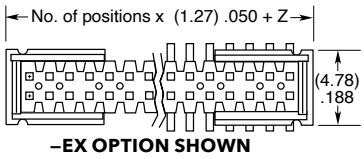
TAIL OPTION
–DV
= Double Vertical
–DH
= Double Horizontal (Styles –01, –02 & –04 only)
–MT
= Mixed Technology (Styles –01, –02 & –04 only)

OPTION
Leave Blank for -DH & -MT
–"XXX"
= Polarized Position (Specify position of omitted pin) (Not available with -EX options)

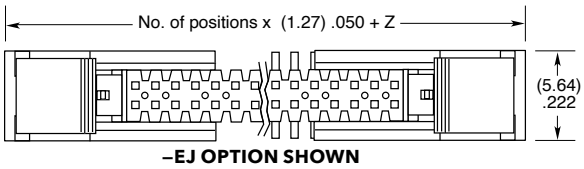
FLEX SHROUD OPTIONS
(Style –02 & –03 only, –DH & –MT not available)
9 pins/row minimum
(Other positions available. Call Samtec.)
–ES
= End Shroud
–EC
= End Shroud with Locking Clip (Manual placement required)
–EP
= End Shroud with Guide Post
–EL
= End Shroud with Board Lock (Boards are positively locked 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, 05 thru 25 pins/row only. 13, 17, 20 & 25 only with –EJ option) (-DV only)
–A
= Alignment Pin
(–DV 3 positions minimum)
(–DH 5 positions minimum)
(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 minimum)
(–DH & –MT not available)
–TR
= Tape & Reel (Flex Shroud options not available except –ES & –EJ)
–FR
= Full Reel Tape & Reel (must order maximum quantity per reel; contact Samtec for quantity breaks)

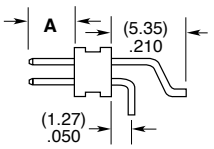
OPTION	Z
–ES	(2.57) .101
–EJ	(15.77) .621
–EC	(3.33) .131
–EP	(5.87) .231
–EL	(6.53) .257



–EX OPTION SHOWN

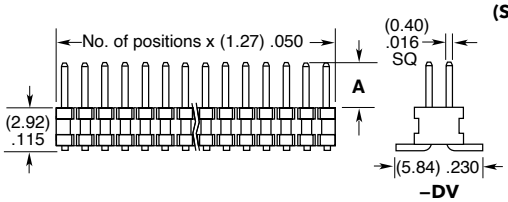


–EJ OPTION SHOWN

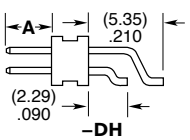


–MT
(Styles –01, –02 & –04 only)

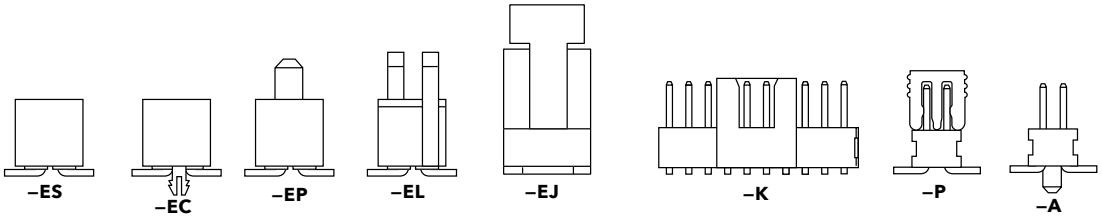
LEAD STYLE	A
–01	(3.05) .120
–02	(1.91) .075
–03	(1.65) .065
–04	(3.81) .150
–05	(4.32) .170



–DV



–DH
(Styles –01, –02, –04 only)



Notes:
Severe Environment Testing qualified; aligns with MIL-DTL-55302. Visit samtec.com/set

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

See SFM/TFM for positive alignment feature.

Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.