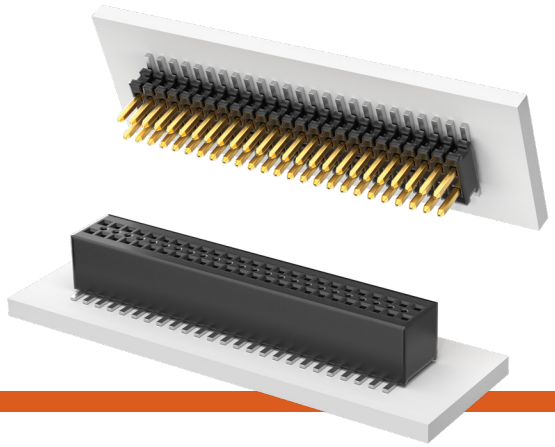
TIGER™ BEAM CONTACT

# SMT MICRO HEADER & SOCKET

## (0.80 mm) .0315" PITCH • FTE/CLE SERIES



**FTE**
**Mates:**
CLE

**CLE**
**Mates:**
FTE, AW

## SPECIFICATIONS

**Insulator Material:**
Black Liquid Crystal Polymer
**Terminal Material:**
Phosphor Bronze
**Contact Material:**
BeCu
**Plating:**
Au over 50 µ" (1.27 µm) Ni
**Operating Temp Range:**
-55 °C to +125 °C
**Current Rating (FTE/CLE):**
2.2 A per pin
(2 pins powered)
**Voltage Rating:**
213 VAC/301 VDC
**Insertion Depth (CLE):**
Top Entry =
(1.73 mm) .068" to (3.18 mm) .125" with (0.38 mm) .015" wipe, or pass-through
Bottom Entry =
(3.23 mm) .127" minimum plus board thickness
**Max Cycles (CLE):**
100 with 10 µ" (0.25 µm) Au

## PROCESSING

**Lead-Free Solderable:**
Yes
**SMT Lead Coplanarity (FTE):**
-DV: (0.10 mm) .004" max
-DH: (0.10 mm) .004" max (05-25)
(0.15 mm) .006" max (26-50)*
*(.004" stencil solution may be available; contact ipg@samtec.com)
**SMT Lead Coplanarity (CLE):**
(0.10 mm) .004" max (04-65)
(0.15 mm) .006" max (66-90)*
*(.004" stencil solution may be available; contact ipg@samtec.com)

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

## FTE

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

**NO. PINS PER ROW:** 05 thru 90

**LEAD STYLE:** Specify LEAD STYLE from chart

**PLATING OPTION**

**–G**
= 10 µ" (0.25 µm) Gold on post, Gold flash on balance

**TAIL OPTION**

**–DV**
= Dual Vertical

**–DH**
= Dual Horizontal (50 positions maximum)

**FLEX SHROUD OPTIONS**

Style –01 –DV only (11 pins/row minimum)

**–ES**
= End Shroud

**–EC**
= End Shroud with Locking Clips (Manual placement required)

**–EP**
= End Shroud with Guide Posts

**OTHER OPTION**

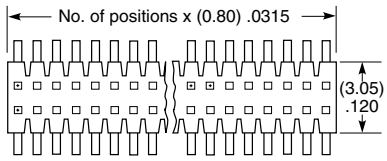
**–A**
= Alignment Pin (5 positions minimum) Metal or plastic at Samtec discretion (–DV only)

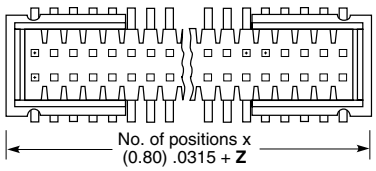
**–K**
= (2.50 mm) .098" DIA Polyimide Film Pick & Place Pad (–DH only)

**–P**
= Plastic Pick & Place Pad (8 positions minimum) –DV only

**–TR**
= Tape & Reel

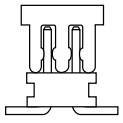
**–FR**
= Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)



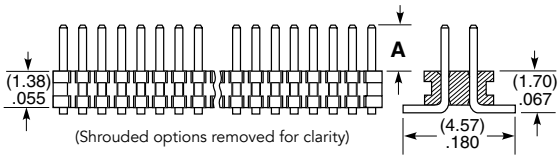



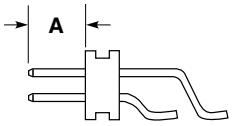

| OPTION | Z |
|---|---|
| –ES | (1.57) .062 |
| –EC | (4.11) .162 |
| –EP | (5.51) .217 |

| LEAD STYLE | A |
|---|---|
| –01 | (1.90) .075 |
| –02 | (4.45) .175 |
| –03 | (3.05) .120 |

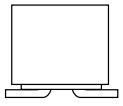


-P OPTION




-DH OPTION



-ES OPTION

## CLE

CLE – 1 – NO. PINS PER ROW – 01 – PLATING OPTION – DV – OPTIONS

**NO. PINS PER ROW:** 04 thru 90

**PLATING OPTION**

**–F**
= Gold flash on contact and tail

**–G**
= 10 µ" (0.25 µm) Gold on contact and tail

**OPTIONS**

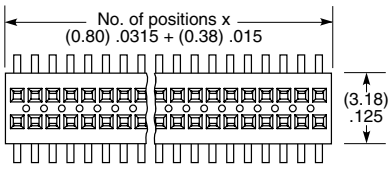
**–A**
= Alignment Pin (4 positions minimum) Metal or plastic at Samtec discretion.

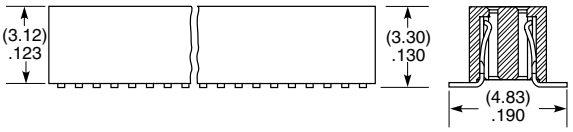
**–K**
= (3.50 mm) .138" DIA Polyimide film Pick & Place Pad (8 positions minimum)

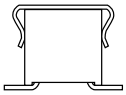
**–P**
= Metal Pick & Place Pad (8 positions minimum)

**–TR**
= Tape & Reel

**–FR**
= Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)



-P OPTION



samtec.com?FTE or samtec.com?CLE

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.