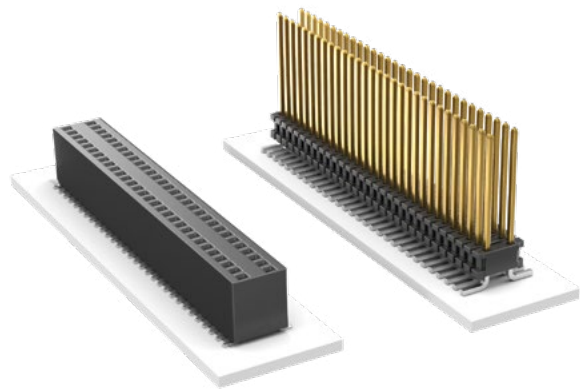


# SMT MICRO HEADER & SOCKET

(1.27 mm) .050" PITCH • FTR/RSM SERIES

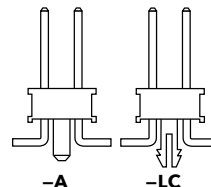
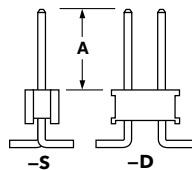
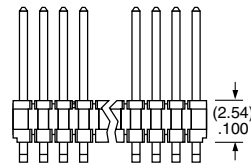
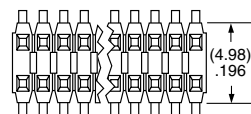
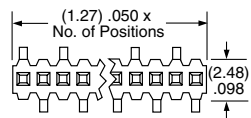


**FTR**  
Mates:  
RSM, SMS, SLM

**RSM**  
Mates:  
FTR, HTMS, HDWM,  
DWM, TML, ZML, TMS

## SPECIFICATIONS

**Insulator Material:**  
Black Liquid Crystal Polymer  
**Contact Material:**  
RSM: Phosphor Bronze  
**Terminal Material:**  
FTR: Phosphor Bronze  
**Plating:**  
Au or Sn over  
50  $\mu$ " (1.27  $\mu$ m) Ni  
**Current Rating (FTR/RSM):**  
3.1 A per pin  
(2 pins powered)  
**Operating Temp Range:**  
FTR: -55 °C to +105 °C with Tin;  
FTR: -55 °C to +125 °C with Gold  
RSM: -55 °C to +125 °C  
**Lead Size Accepted:**  
RSM: (0.46 mm) .018" SQ  
**Insertion Depth:**  
RSM: Top Entry =  
(2.64 mm) .104" to (5.84 mm) .230"  
with (0.38 mm) .015" wipe, or  
pass-through.  
RSM: Bottom Entry =  
(5.49 mm) .216" minimum  
(Add board thickness for  
correct post OAL)



| FTR | 1 | NO. PINS PER ROW | LEAD STYLE | PLATING OPTION | ROW OPTION | OPTION |
|-----|---|------------------|------------|----------------|------------|--------|
|-----|---|------------------|------------|----------------|------------|--------|

02 thru 40

Specify  
LEAD  
STYLE  
from  
chart

**-L**  
= 10  $\mu$ " (0.25  $\mu$ m)  
Gold on post,  
Matte Tin on tail

**-G**  
= 10  $\mu$ " (0.25  $\mu$ m)  
Gold on post,  
Gold flash on tail

**-S**  
= Single Row

**-D**  
= Double Row

**-"XX"**  
= Polarized

**-A**  
= Alignment Pin  
(5 positions min. for -D)  
(Metal or plastic  
at Samtec discretion)  
(Not available with -LC)

**-LC**  
= Locking Clip  
(6 positions min. for -D)  
(Not available with -A)  
(Manual placement required)

**-P**  
= Plastic Pick & Place Pad  
(5 positions min. for -D)  
(8 positions min. for -S)

**-TR**  
= Tape & Reel  
(4 positions min. for -S)

**-FR**  
= Full Reel Tape & Reel  
(must order max. quantity  
per reel; contact Samtec  
for quantity breaks)  
(4 positions min. for -S)

| LEAD STYLE | A            |
|------------|--------------|
| -01        | (5.84) .230  |
| -02        | (2.54) .100  |
| -03        | (3.18) .125  |
| -51        | (4.83) .190  |
| -52        | (5.21) .205  |
| -53        | (7.24) .285  |
| -54        | (8.51) .335  |
| -55        | (9.91) .390  |
| -56        | (10.29) .405 |
| -57        | (10.92) .430 |

## PROCESSING

**Lead-Free Solderable:**  
Yes  
**SMT Lead Coplanarity:**  
RSM: (0.10 mm) .004" max  
FTR: (0.10 mm) .004" max (02-20)  
FTR: (0.15 mm) .006" max (21-40)\*  
\*(.004" stencil solution  
may be available; contact  
IPG@samtec.com)

| RSM | 1 | NO. PINS PER ROW | 02 | PLATING OPTION | ROW OPTION | OPTION |
|-----|---|------------------|----|----------------|------------|--------|
|-----|---|------------------|----|----------------|------------|--------|

02 thru 36

**-L**  
= 10  $\mu$ " (0.25  $\mu$ m)  
Gold on contact,  
Matte Tin on tail

**-S**  
= Single Row

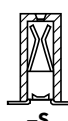
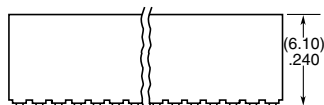
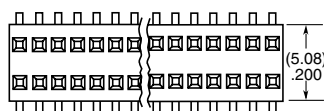
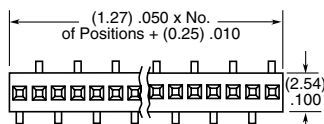
**-D**  
= Double Row

**-K**  
= (6.25 mm) .246" DIA  
Polyimide film  
Pick & Place Pad  
(5 positions  
minimum for -D)  
(7 positions  
minimum for -S)

**-P**  
= Plastic Pick &  
Place Pad  
(5 positions  
minimum for -D)  
(6 positions  
minimum for -S)

**-TR**  
= Tape & Reel

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



**ALSO AVAILABLE**  
MOQ Required

Other platings  
Locking clips

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