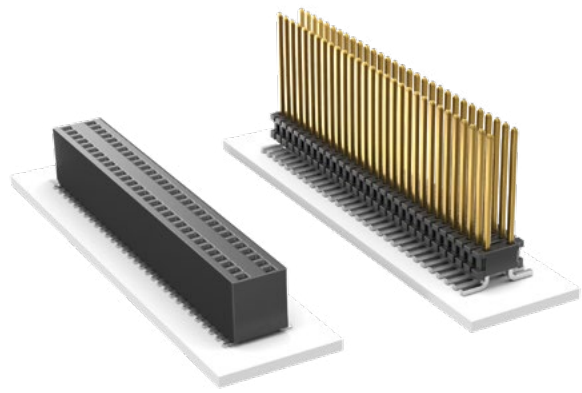


# SMT MICRO HEADER & SOCKET

(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	<b>-L</b> = 10 $\mu$ " (0.25 $\mu$ m) Gold on post, Matte Tin on tail  <b>-G</b> = 10 $\mu$ " (0.25 $\mu$ m) Gold on post, Gold flash on tail	<b>-S</b> = Single Row  <b>-D</b> = Double Row	<b>-XX</b> = Polarized  <b>-A</b> = Alignment Pin (5 positions min. for -D) (Metal or plastic at Samtec discretion) (Not available with -LC)  <b>-LC</b> = Locking Clip (6 positions min. for -D) (Not available with -A) (Manual placement required)  <b>-P</b> = Plastic Pick & Place Pad (5 positions min. for -D) (8 positions min. for -S)  <b>-TR</b> = Tape & Reel (4 positions min. for -S)  <b>-FR</b> = 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

Dimensions shown in drawings:  
 - Top view: (1.27) .050 x No. of Positions  
 - Side view: (2.48) .098  
 - Another side view: (4.98) .196  
 - Another side view: (2.54) .100  
 - Lead styles: -S, -D, -A, -LC

## 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		<b>-L</b> = 10 $\mu$ " (0.25 $\mu$ m) Gold on contact, Matte Tin on tail	<b>-S</b> = Single Row  <b>-D</b> = Double Row	<b>-K</b> = (6.25 mm) .246" DIA Polyimide film Pick & Place Pad (5 positions minimum for -D) (7 positions minimum for -S)  <b>-P</b> = Plastic Pick & Place Pad (5 positions minimum for -D) (6 positions minimum for -S)  <b>-TR</b> = Tape & Reel  <b>-FR</b> = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)

**ALSO AVAILABLE**  
MOQ Required

Other platings  
Locking clips

Dimensions shown in drawings:  
 - Top view: (1.27) .050 x No. of Positions + (0.25) .010  
 - Side view: (2.54) .100  
 - Another side view: (5.08) .200  
 - Another side view: (6.10) .240  
 - Lead styles: -S, -D

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