

(1.27 mm) .050"

TFC SERIES

# COST-EFFECTIVE RELIABLE HEADER

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?TFC](http://www.samtec.com?TFC)

**Insulator Material:**  
Black Liquid Crystal Polymer  
**Terminal Material:**  
Phosphor Bronze

**Plating:**  
Au or Sn over  
50 μm (1.27 μm) Ni

**Current Rating:**  
3.1 A per pin  
(2 pins powered)

**Voltage Rating:**  
350 VAC mated with SFC

**Operating Temp Range:**  
-55 °C to +125 °C

**RoHS Compliant:**  
Yes

## PROCESSING

**Lead-Free Solderable:**  
Yes

**SMT Lead Coplanarity:**  
(0.10 mm) .004" max (03-25)  
(0.15 mm) .006" max (30-50)\*  
\*(.004" stencil solution may be available; contact IPG@samtec.com)

## RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



## ALSO AVAILABLE (MOQ Required)

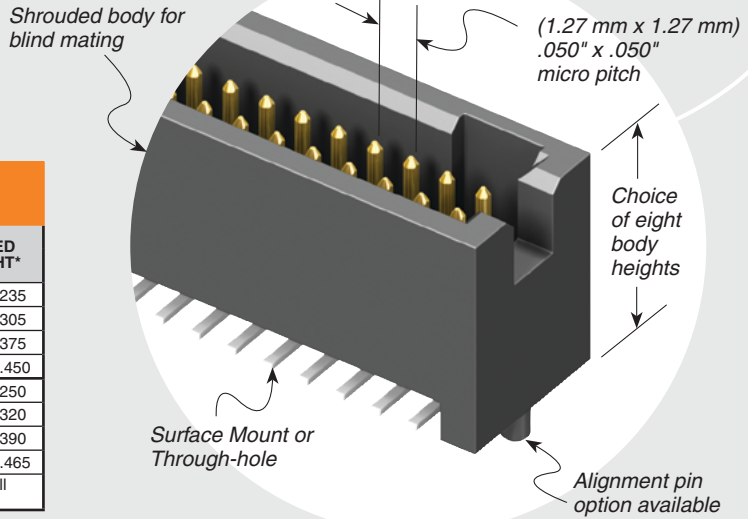
- Other sizes

**Board Mates:**  
SFC

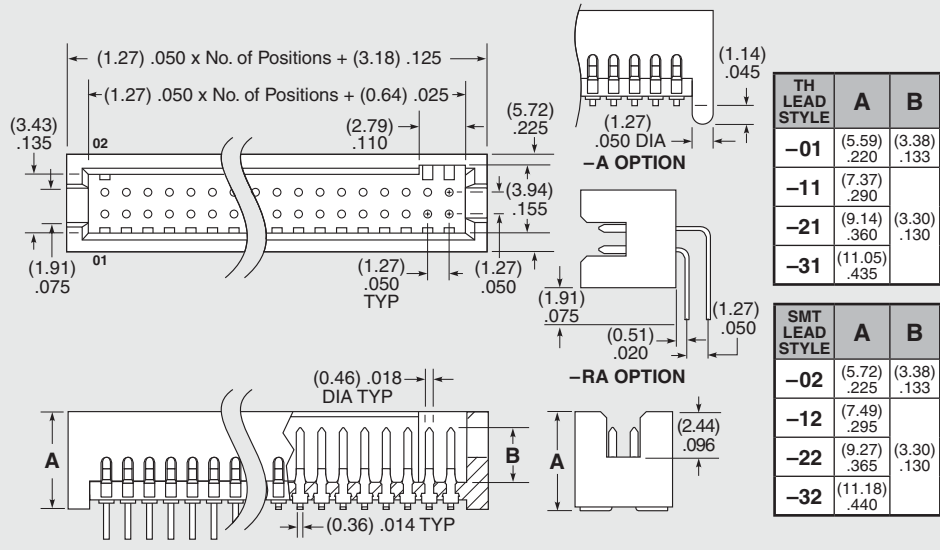
**Cable Mates:**  
SFSFD, SFSDT

MATED HEIGHTS		
LEAD STYLE		MATED HEIGHT*
TFC	SFC	
-01	-T1	(5.97) .235
-11		(7.75) .305
-21		(9.53) .375
-31		(11.43) .450
-02	-T2	(6.35) .250
-12		(8.13) .320
-22		(9.91) .390
-32		(11.81) .465

\*Processing conditions will affect mated height.



<b>TFC</b>	<b>1</b>	<b>NO. PINS PER ROW</b>	<b>LEAD STYLE</b>	<b>PLATING OPTION</b>	<b>D</b>	<b>OPTION</b>
		<b>03, 04, 06, 08</b> (Lead Style -01 & -02 only)	<b>-X1</b> = Through-hole	<b>-F</b> = Gold flash on post, Matte Tin on tail		<b>-RA</b> = Right-angle (-01 only)
		<b>05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50</b> (Standard sizes)	<b>-X2</b> = Surface Mount	<b>-L</b> = 15 μm (0.38 μm) Gold on post, Matte Tin on tail		<b>-A</b> = Alignment Pin
						<b>-LC</b> = Locking Clip (Manual Placement required) (not available with -RA)
						<b>-K</b> = (6.75 mm) .266" DIA Polyimide film Pick & Place Pad
						<b>-P</b> = Plastic Pick & Place Pad (5 positions min.)
						<b>-TR</b> = Tape & Reel (-X2 only)



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

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

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

All parts within this catalog are built to Samtec's specifications. Components must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.