

(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  $\mu$ " (1.27  $\mu$ m) 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)



FILE NO. E111594

## ALSO AVAILABLE (MOQ Required)

- Other sizes

**Board Mates:**  
SFC

**Cable Mates:**  
SFSD, 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.

Shrouded body for  
blind mating

(1.27 mm x 1.27 mm)  
.050" x .050"  
micro pitch

Choice of eight  
body heights

Surface Mount or  
Through-hole

Alignment pin  
option available

TFC

1

NO. PINS  
PER ROWLEAD  
STYLEPLATING  
OPTION

D

OPTION

03, 04, 06, 08  
(Lead Style -01 & -02 only)

05, 07, 10, 15, 20, 25,  
30, 35, 40, 45, 50  
(Standard sizes)

-X1  
= Through-hole

-X2  
= Surface Mount

-F  
= Gold flash on post,  
Matte Tin on tail

-L  
= 15  $\mu$ " (0.38  $\mu$ m) Gold on post,  
Matte Tin on tail

-RA  
= Right-angle  
(-01 only)

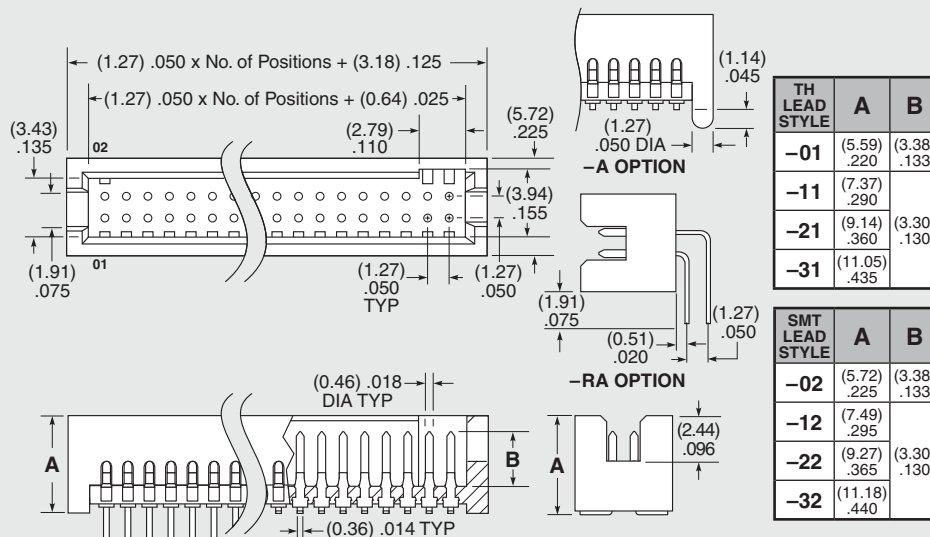
-A  
= Alignment Pin

-LC  
= Locking Clip  
(Manual  
Placement  
required)  
(not available  
with -RA)

-K  
= (6.75 mm) .266"  
DIA Polyimide film  
Pick & Place Pad

-P  
= Plastic Pick &  
Place Pad  
(5 positions min.)

-TR  
= 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.

Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Samtec:](#)

[TFC-110-12-F-D-A](#)