

(1.27 mm) .050"

TFC SERIES

COST-EFFECTIVE RELIABLE HEADER

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com/TFC

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

Plating:

Au or Sn over
50 μ" (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



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

Surface Mount or Through-hole

Choice of eight body heights

Alignment pin option available

HIGH-SPEED CHANNEL PERFORMANCE

Rating based on Samtec reference channel. For full SI performance data visit Samtec.com or contact SIG@samtec.com

8
Gbps

TFC

1

NO. PINS PER ROW

LEAD STYLE

PLATING 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 μ" (0.38 μm)
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

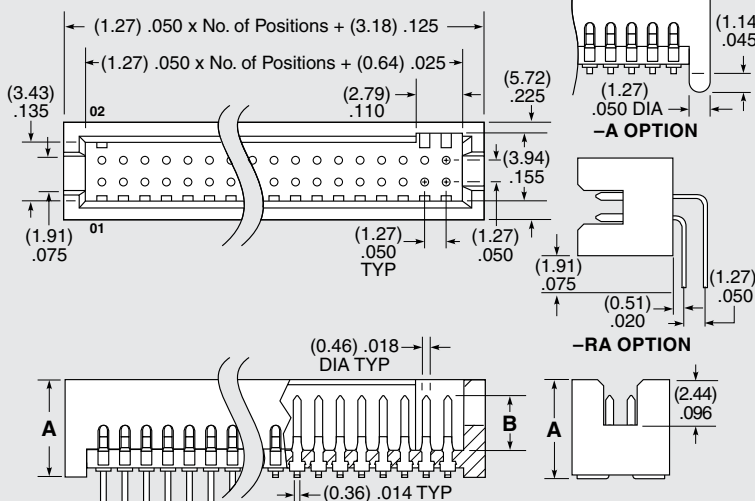
-P
= Plastic Pick & Place Pad
(5 positions min.)

-TR
= Tape & Reel
(-X2 only)

-FR
= Full Reel Tape & Reel
(Must order max.
quantities per reel.
Contact Samtec for
parts per reel)
(-X2 only)

TH LEAD STYLE	A	B
-01	(5.59) .220	(3.38) .133
-11	(7.37) .290	
-21	(9.14) .360	(3.30) .130
-31	(11.05) .435	

SMT LEAD STYLE	A	B
-02	(5.72) .225	(3.38) .133
-12	(7.49) .295	
-22	(9.27) .365	(3.30) .130
-32	(11.18) .440	



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

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-107-02-L-D-A](#)