



Surface
SMT
Mount

MICRO MATE SOCKETS

SFM, SFML SERIES

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?SFM or www.samtec.com?SFML

Insulator Material: Black Liquid Crystal Polymer

Contact Material: Tiger Eye™ = BeCu

Tiger Eye LITE = Phosphor Bronze

Plating:

Au over 50μ" (1,27μm) Ni

Current Rating: 2A @ 80°C ambient

Voltage Rating: 350 VAC mated with TFM

Operating Temp Range: -55°C to +125°C

Contact Resistance: 15 mΩ max

Insertion Depth: (3,05mm) .120" to (4,06mm) .160"

Wiping Distance: (0,38mm) .015"

Normal Force:

Standard= 132g (1,29N) avg.;

LIF= 90g (0,88N) avg.

Insertion Force (SFM):

(Single contact only)

Standard= 2.5oz (0,69N) avg.;

LITE= 2.0oz (0,56N) avg.

LIF= 1.4oz (0,39N) avg.

Withdrawal Force (SFM):

(Single contact only)

Standard= 2.0oz (0,56N) avg.;

LITE= 1.5oz (0,42N) avg.

LIF= 1.0oz (0,28N) avg.

Insertion Force (SFML):

(Single contact only)

2.5oz (0,69N) avg.

Unmating Force (SFML):

Withdrawal force per contact

(Single contact only)= 1.5oz

(0,42N) average; Incremental

unmating force with friction

locks:

10-20 pins/row (One Lock)

increases withdrawal force by

4 x average;

25 & 30 pins/row (Two Locks)

increases withdrawal force by

3 x average;

35-50 pins/row (Three Locks)

increases withdrawal force by

1.7 x average

Max Cycles:

10,000 with 30μ" (0,76μm) Au

RoHS Compliant: Yes

Processing:

Max Processing Temp:

230°C for 60 seconds, or

260°C for 20 seconds 3x

Lead-Free Solderable: Yes

SMT Lead Coplanarity:

(0,10mm) .004" max (05-25)

(0,15mm) .006" max (30-50)

Note: Some sizes, styles and

options are non-standard,

non-returnable.

SFM Mates with: TFM, TFSD, FTS (LIF), FW (LIF), FTSH (LIF)

SFML Mates with: TFML



COST-SAVING APPLICATIONS



Lower cost Phosphor Bronze contact (-T2) for applications where Beryllium Copper is not needed. See SFC Series for lower cost plating options.

High reliability
Tiger Eye™ contacts

Locking feature increases un mating force (SFML)

SMT tails

Choice of alignment pin or locking clip options

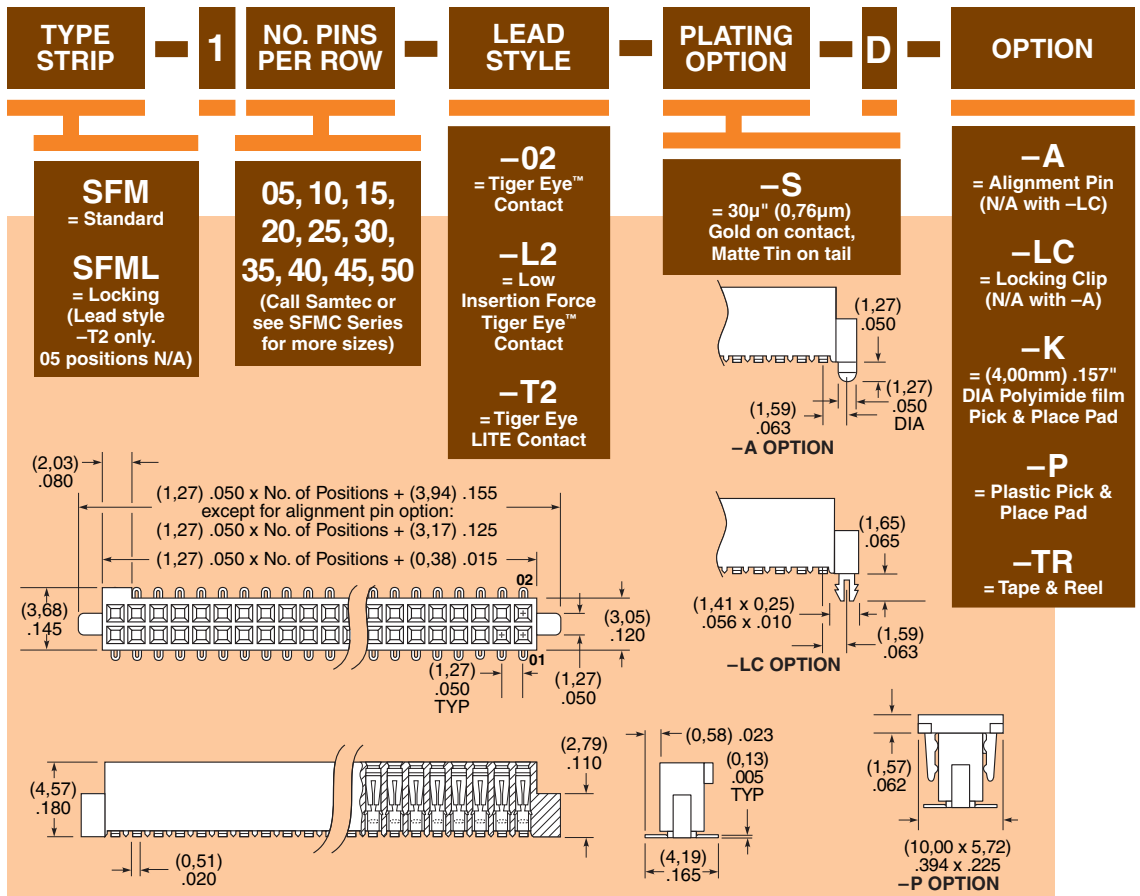
(1,27mm x 1,27mm)
.050" x .050"
micro pitch

APPLICATION SPECIFIC OPTION

SFM single row available.
SFML solder nail option available.
Call Samtec.



Available with optional Pick & Place pads



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

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