

Surface
SMT
Mount



SFML-125-T2-S-D-LC

SFML-115-02-S-D-A

SFM-110-T2-S-D-LC

MICRO MATE SOCKETS

SFML, SFM 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): (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

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

Locking feature increases un mating force (SFML)

SMT tails

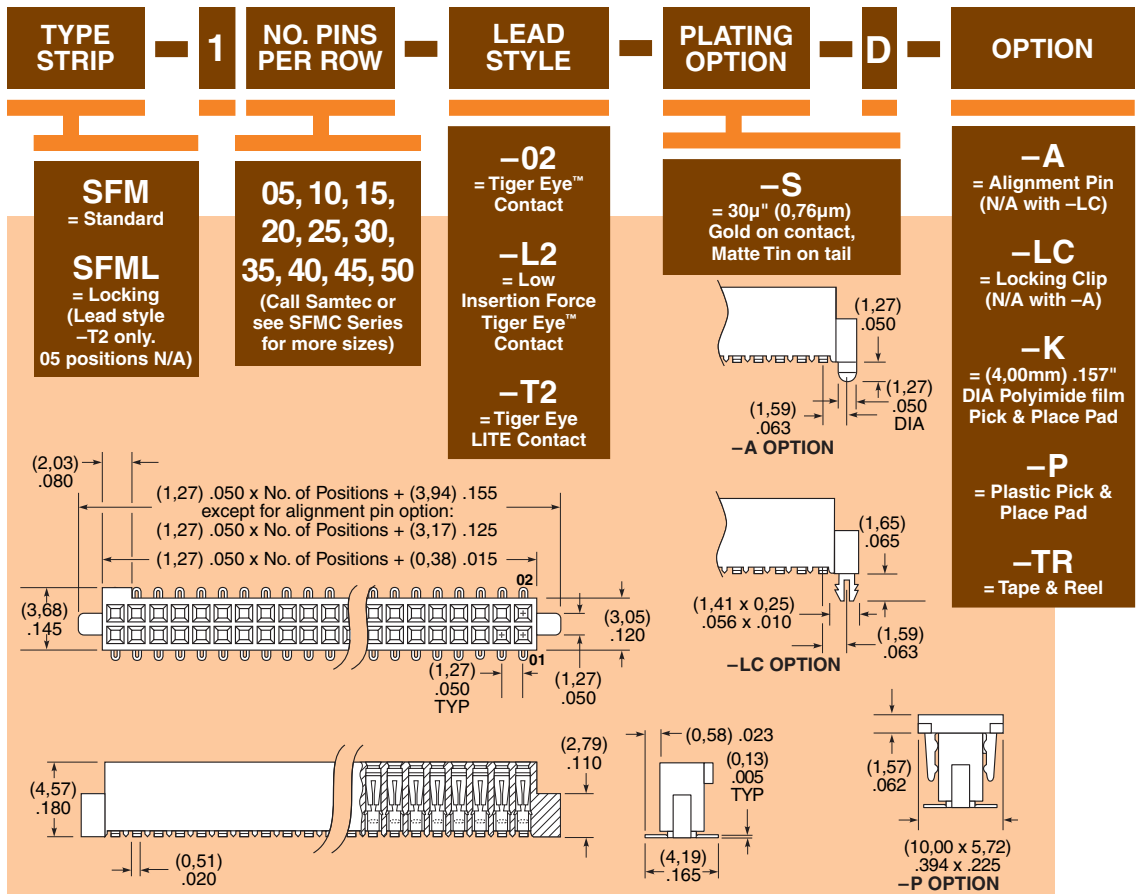
Choice of alignment pin or locking clip options

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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