

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 C US 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 m Ω 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 (SFML):
Withdrawal force per contact
(Single contact only)= 1.5oz
(0,42N) average; Incremental
unmating force with friction

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;

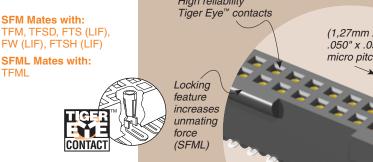
35-50 pins/row (Three Locks) increases withdrawal force by 1.7 x average

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,



COST-SAVING APPLICATIONS



TYPE

STRIP

(2,03) .080

(3,68)

.145

(4,57)180

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

High reliability (1,27mm x 1,27mm) .050" x .050" micro pitch SMT tails Choice of alignment pin

APPLICATION SPECIFIC OPTION

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



Available with optional Pick & Place pads

LEAD STYLE

PLATING **OPTION**

or locking clip options

OPTION

SFM = Standard SFML

= Locking (Lead style T2 only. 05 positions N/A)

05, 10, 15, 20, 25, 30, 35, 40, 45, 50 (Call Samtec or

NO. PINS

PER ROW

see SFMC Series for more sizes)

(1,27) .050 x No. of Positions + (3,94) .155

except for alignment pin option: (1,27) .050 x No. of Positions + (3,17) .125

(1,27) .050 x No. of Positions + (0,38) .015

-02 = Tiger Eye"

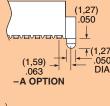
= Low **Insertion Force** Tiger Eye' Contact

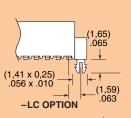
-T2 = Tiger Eye LITE Contact

Contact = 30µ" (0,76µm) Gold on contact

(3,05)

Matte Tin on tail







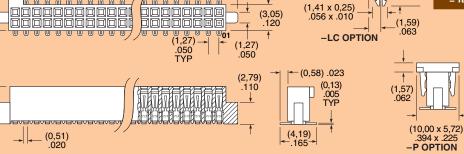
= Alignment Pin (N/A with -LC)

–LC = Locking Clip (N/A with –A)

–K = (4,00mm) .157" DIA Polyimide film Pick & Place Pad

−P = Plastic Pick & Place Pad

–TR = Tape & Reel



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

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