

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"

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.

Withdrawal Force (SFM):
(Single contact only)
Standard= 2.0oz (0.56N) avg;
LITE= 1.5oz (0.42N) 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

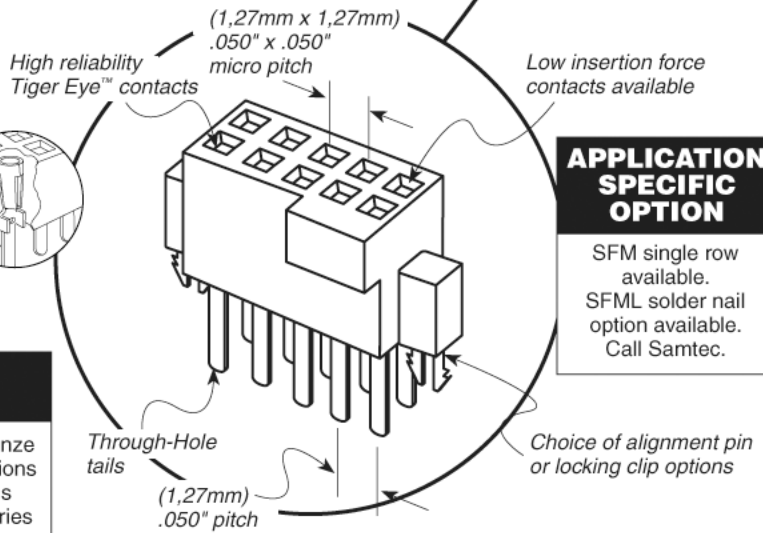
Lead-Free Solderable:
Yes

SMT Lead Coplanarity:
.004" (0.10mm) max (05-25)
.006" (0.15mm) 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



APPLICATION SPECIFIC OPTION

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

COST-SAVING APPLICATIONS



Lower cost Phosphor Bronze contact (-T1) for applications where Beryllium Copper is not needed. See SFC Series for lower cost plating options.

TYPE STRIP	1	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	D	OPTION
SFM = Standard		05, 10, 15, 20, 25, 30, 35, 40, 45, 50 (Call Samtec or see SFMC Series for more sizes)	-01, -03 = Tiger Eye™ Contact	-S = 30µ" (0.76µm) Gold on contact, Matte Tin on tail		-A = Alignment Pin (N/A with -LC)
SFML = Locking (Lead style -T1 only, 05 positions N/A)			-L1, -L3 = Low Insertion Force Tiger Eye™ Contact			-LC = Locking Clip (N/A with -A)
			-T1 = Tiger Eye LITE Contact			

LEAD STYLE	A	B
-01, -L1, -T1	(3,05) .120	(0,51) .020
-03, -L3	(1,91) .075	(0,41) .016

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

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