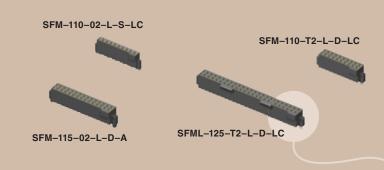


(1,27mm) .050" SFM, SFML SERIES





SMT TIGER EYE™ SOCKET

SPECIFICATIONS

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

FILE NO. E111594

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Insulator Material: Black Liquid Crystal Polymer
Contact Material:
Tiger Eye™ = BeCu
Tiger Eye™ LITE= Phosphor Bronze Plating:

Au or Šn over 50μ" (1,27μm) Ni 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): 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)

(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

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: Other Gold plating options available. Contact Samtec.

Note: Some sizes, styles and options are non-standard, non-returnable



SFML Mates with: **TFML**

contact sig@samtec.com

CURRENT RATING	
AMBIENT TEMP	TFM/SFM
20°C	5A
40°C	4.5A
60°C	3.9A
95°C	2.6A
6 POSITIONS (2x3) POWERED	

Locking feature increases unmating force (SFML)

High reliability Tiger Eye™ contacts

1.27mm SFM/TFM Rated @ -3dB Insertion Loss 6,35mm Stack Height Single-Ended Signaling 6.0 GHz / 12 Gbps Differential Pair Signaling 7.0 GHz / 14 Gbps Performance data for other stack heights and complete test data available at www.samtec.com?SFM or

CONTACT

1,000 cycles when mated with TFM SMT tails

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

micro pitch

EXTENDED LIFE PRODUCT 10 Year Mixed Flowing Gas (MFG)

APPLICATION SPECIFIC **OPTION**

Solder nail option available. Call Samtec.

Choice of alignment pin or locking clip options

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.

