## F-211

# SNIT TIGER EYESOCKET 

## 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 $\mathrm{Eye}^{\mathrm{TM}}=\mathrm{BeCu}$ Tiger Eye ${ }^{\text {TM }}$ LITE= Phosphor Bronze Plating:
Au or Sn over $50 \mu^{\prime \prime}(1,27 \mu \mathrm{~m}) \mathrm{Ni}$ Voltage Rating:
350 VAC mated with TFM Operating Temp Range:
$-55^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$
Contact Resistance:
$15 \mathrm{~m} \Omega$ max
Insertion Depth:
$(3,05 \mathrm{~mm}) .120$ to
( $4,06 \mathrm{~mm}$ ). $160^{\prime \prime}$
Wiping Distance:
( $0,38 \mathrm{~mm}$ ) . $015^{1}$
Normal Force:
Standard= 132g (1,29N) avg.; LIF=90g ( $0,88 \mathrm{~N}$ ) avg. Insertion Force (SFM):
(Single contact only) Standard= $2.50 \mathrm{z}(0,69 \mathrm{~N}$ ) avg.; LITE=2.0oz ( $0,56 \mathrm{~N}$ ) avg.; LIF= $1.40 \mathrm{z}(0,39 \mathrm{~N})$ avg. Withdrawal Force (SFM): (Single contact only) Standard= $2.0 \mathrm{oz}(0,56 \mathrm{~N})$ avg.; LITE $=1.50 \mathrm{z}(0,42 \mathrm{~N})$ avg. LIF=1.0oz ( $0,28 \mathrm{~N}$ ) avg. Insertion Force (SFML): (Single contact only) $2.50 z(0,69 \mathrm{~N})$ avg. Unmating Force (SFML): Withdrawal force per contact (Single contact only) $=1.50 \mathrm{z}$ ( $0,42 \mathrm{~N}$ ) average; Incremental unmating force with friction locks: 10-20 pins/row (One locks: 10-20 pins/row (One Lock) increases withdiawal pins/row (Two Locks) increases withdrawal force by 3 x average $35-50$ pins/row (Three Locks) increases withdrawal force by $1.7 \times$ average Max Cycles:
10,000 with $30 \mu^{\prime \prime}(0,76 \mu \mathrm{~m}) \mathrm{Au}$ RoHS Compliant:
Yes

## Processing:

Lead-Free Solderable:
Yes
SMT Lead Coplanarity:
(0,10mm) .004" max (05-25) $(0,15 \mathrm{~mm}) .006 \mathrm{max}(30-50)$

Note: Other Gold plating options available.
Contact Samtec.
Note: Some sizes, styles and options are non-standard, non-returnable.


SFM Mates with: TFM, TFSD, TFSS, FTS (LIF), FW (LIF), FTSH (LIF) SFML Mates with: TFML, TFSD (-XL option), TFSDT (-XL option)

| CURRENT RATING |  |
| :---: | :---: |
| AMBIENT TEMP | TFM/SFM |
| $20^{\circ} \mathrm{C}$ | 5 A |
| $40^{\circ} \mathrm{C}$ | 4.5 A |
| $60^{\circ} \mathrm{C}$ | 3.9 A |
| $95^{\circ} \mathrm{C}$ | 2.6 A |
| 6 POSITIONS (2x3) POWERED |  |


| 1,27mm SFM/TFM | Rated @ 3dB Insertion Loss |
| :--- | :---: |
| $6,35 \mathrm{~mm}$ Stack Height | $6.0 \mathrm{GHz} / 12 \mathrm{Gbps}$ |
| Single-Ended Signaling | $7.0 \mathrm{GHz} / 14 \mathrm{Gbps}$ |
| Differential Pair Signaling | Performance data for other stack heights and complete <br> test data available at www.samtec.com?SFM or <br> contact sig@ samtec.com |

High reliability
Tiger Eye ${ }^{\text {TM }}$ contacts $(1,27 \mathrm{~mm} \times 1,27 \mathrm{~mm}) \quad$ TM


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

