



**THE DATASHEET OF  
SHF-105-01-S-D-SM**



# SHROUDED AND EJECTOR IDC HEADER

(1.27 mm) .050" PITCH • SHF/ESHF/EHF/ECF SERIES



## SHF/ESHF

Mates:  
FFSD, FFTP (SHF)

## EHF

Mates:  
FFSD\*, FFTP

**\*Important Note:**  
EHF will not mate to FFSD with strain relief (-SR option), see ESHF series.

|               |          |                         |           |                       |          |                    |                     |
|---------------|----------|-------------------------|-----------|-----------------------|----------|--------------------|---------------------|
| <b>SERIES</b> | <b>1</b> | <b>NO. PINS PER ROW</b> | <b>01</b> | <b>PLATING OPTION</b> | <b>D</b> | <b>TAIL OPTION</b> | <b>OTHER OPTION</b> |
|---------------|----------|-------------------------|-----------|-----------------------|----------|--------------------|---------------------|

|   |   |  |                               |   |
|---|---|--|-------------------------------|---|
| <b>SHF</b><br>= Mates with FFSD without Strain Relief | <b>04, 05, 06, 08, 10, 11, 12, 13, 15, 17, 20, 25</b><br>(Standard sizes) | <b>-L</b><br>= 10 μm (0.25 μm) Gold on post, Matte Tin on tail | <b>-TH</b><br>= Through-hole  | <b>-LC</b><br>= Locking Clip (Not available with -RA) (Manual placement required)                             |
| <b>ESHF</b><br>= Mates with FFSD with Strain Relief   |   |  | <b>-RA</b><br>= Right-angle   | <b>-K</b><br>= (6.50 mm) .256" DIA Polyimide Film Pick & Place Pad (-SM only)                                 |
|   |   |  | <b>-SM</b><br>= Surface Mount | <b>-TR</b><br>= Tape & Reel   |
|   |   |  |                               | <b>-FR</b><br>= Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) |

## SPECIFICATIONS

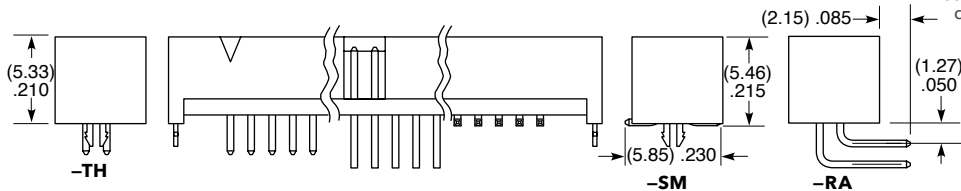
**Insulator Material:**  
Black Liquid Crystal Polymer  
**Terminal Material:**  
Phosphor Bronze  
**Plating:**  
Sn or Au over 50 μm (1.27 μm) Ni  
**Operating Temp Range:**  
-55 °C to +125 °C



| TYPE STRIP | A  |
|------------|--|
| SHF        | No. of pins x (1.27) .050 + (6.35) .250  |
| ESHF       | No. of pins x (1.27) .050 + (10.16) .400 |

## PROCESSING

**Lead-Free Solderable:**  
Yes  
**SMT Lead Coplanarity:**  
(0.10 mm) .004" max



|            |          |                         |           |                       |          |                    |                     |
|------------|----------|-------------------------|-----------|-----------------------|----------|--------------------|---------------------|
| <b>EHF</b> | <b>1</b> | <b>NO. PINS PER ROW</b> | <b>01</b> | <b>PLATING OPTION</b> | <b>D</b> | <b>TAIL OPTION</b> | <b>OTHER OPTION</b> |
|------------|----------|-------------------------|-----------|-----------------------|----------|--------------------|---------------------|

**04, 05, 08, 10, 13, 17, 20, 25**  
(Standard sizes)

**-F**  
= Gold flash on post, Matte Tin on tail

**-L**  
= 10 μm (0.25 μm) Gold on post, Matte Tin on tail

Leave blank for Through-hole version

**-SM**  
= Surface Mount

**-RA**  
= Right-angle

**-“XX”**  
= Polarized Position (-RA not available)

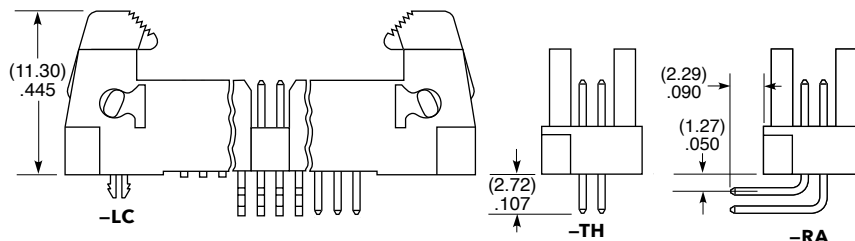
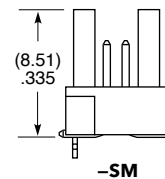
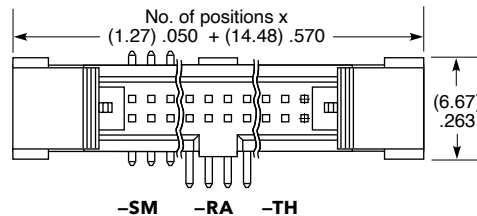
**-LC**  
= Locking Clip (-SM only) (Manual placement required)

**-K**  
= (7.50 mm) .295" DIA Polyimide Film Pick & Place Pad

**-P**  
= Pick & Place Pad (-SM only)

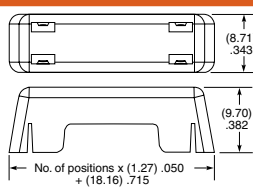
**-TR**  
= Tape & Reel (-LC not available)

**-FR**  
= Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) (-LC not available)



## EJECTOR HEADER CAP

(Locks FFSD cable to EHF header)





**ECF** - **NO. PINS PER ROW**

**05, 08, 10, 13, 17, 20, 25**

**Note:**  
Some lengths, styles and options are non-standard, non-returnable.

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View SHF-105-01-S-D-SM on WIN SOURCE](#)
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