

(2,00 mm) .0787"

T2M, S2M SERIES

T2M-105-01-L-D-RA-WT

T2M-105-01-L-D-TH-WT

T2M-105-01-L-D-SM-WT

S2M-105-02-F-D

S2M-110-01-L-D

# HIGH RELIABILITY HEADER & SOCKET

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?T2M](http://www.samtec.com?T2M)

### Insulator Material:

Black Liquid Crystal Polymer

### Terminal Material:

Phosphor Bronze

### Plating:

Sn or Au over

50µ" (1,27 µm) Ni

### Current Rating:

3A per contact @ 80°C ambient

### Operating Temp Range:

-55°C to +105°C with Tin;

-55°C to +125°C with Gold

### RoHS Compliant:

Yes

### Processing:

Lead-Free Solderable:

Yes

### SMT Lead Coplanarity:

(0,10 mm) .004" max

**Note:** Other Gold plating options available. Contact Samtec.

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



T2M - 1 NO. OF POSITIONS - 01 - PLATING OPTION - D - OPTION - OTHER OPTION

Mates with:  
S2SD, S2M,  
S2SDT

05, 07, 10,  
15, 20, 25, 30  
(Per Row)

-L  
= 10µ" (0,25 µm) Gold on contact,  
Matte Tin on tail

-TH  
= Through-hole

-RA  
= Right Angle

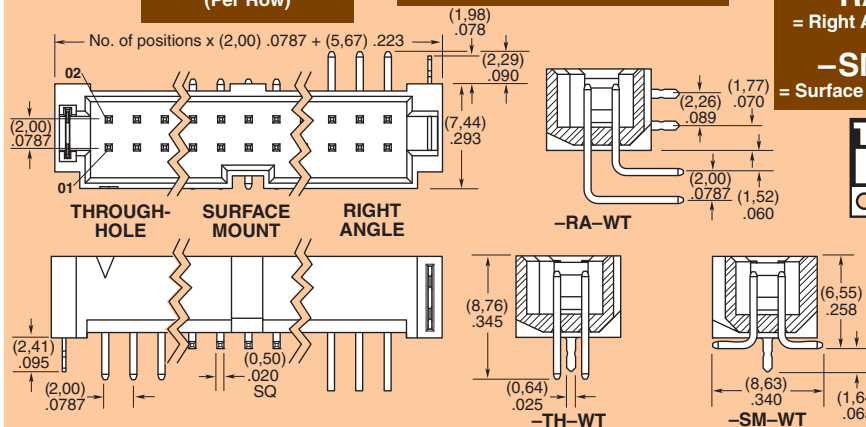
-SM  
= Surface Mount

-WT  
= Weld Tab  
(S2SD & S2SDT,  
-SR/-DR required  
mate)

-DS  
= ScrewDown  
(N/A with -RA)  
(mates with  
-S2M-DS,  
S2SD/S2SDT  
-SS/-DS option)

-K  
= (7,50 mm) .295" DIA  
Polyimide film  
Pick & Place Pad  
(-SM only)

-TR  
= Tape & Reel  
(-SM only)



## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?S2M](http://www.samtec.com?S2M)

### Insulator Material:

Black Liquid Crystal Polymer

### Contact Material:

BeCu

### Plating:

Sn or Au over

50µ" (1,27 µm) Ni

### Operating Temp Range:

-55°C to +125°C

### Contact Resistance:

10 mΩ max

### Insertion Depth:

(3,05 mm) .120" to

(3,25 mm) .128"

### Insertion Force:

(Single contact only)

2.0 oz (0,56 N) average

### Withdrawal Force:

(Single contact only)

1.5 oz (0,42 N) average

### Max Cycles:

100 with 10µ" (0,25 µm) Au

### RoHS Compliant:

Yes

### Processing:

Lead-Free Solderable: Yes

### SMT Lead Coplanarity:

(0,10 mm) .004" max



S2M - 1 NO. OF POSITIONS - LEAD STYLE - PLATING OPTION - D - OPTION - OTHER OPTION

Mates with:  
T2SD, T2M

05, 07, 10,  
15, 20, 25, 30  
(Per Row)

-01  
= Through-hole

-02  
= Surface Mount

-F  
= Gold flash on contact,  
Matte Tin on tail

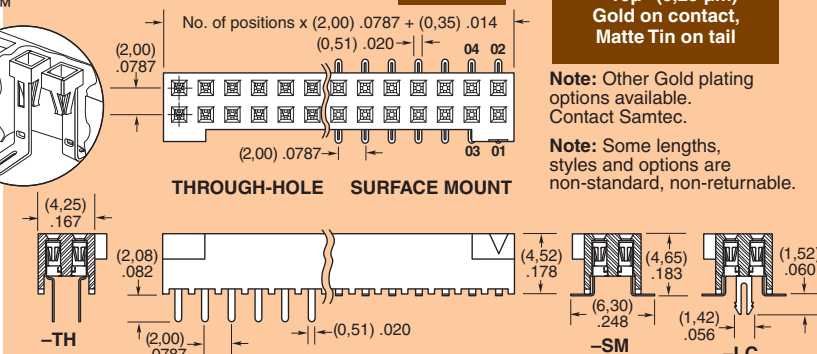
-L  
= 10µ" (0,25 µm)  
Gold on contact,  
Matte Tin on tail

-K  
= (5,50 mm) .217" DIA  
Polyimide film Pick &  
Place Pad  
(-SM only)

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

-DS  
= Screw Down  
(N/A with -LC)  
(mates with  
-T2M-DS)

-TR  
= Tape & Reel  
Packaging



**Note:** Other Gold plating options available. Contact Samtec.

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



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

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)