

(2.00 mm) .0787"

TW-20-03-L-Q-400-085

TW-08-09-F-T-165-100

TW-16-06-T-D-500-100

TW SERIES

# THROUGH-HOLE BOARD STACKERS

## SPECIFICATIONS

For complete specifications see [www.samtec.com?TW-TH](http://www.samtec.com?TW-TH)

### Insulator Material:

Black Liquid Crystal Polymer

### Terminal Material:

Phosphor Bronze

### Plating:

Sn or Au over

50  $\mu$ " (1.27  $\mu$ ) Ni

### Current Rating:

5.2 A per pin

(2 pins powered)

### Operating Temp Range:

-55 °C to +105 °C with Tin;

-55 °C to +125 °C with Gold

### RoHS Compliant:

Yes

### Lead-Free Solderable:

Yes

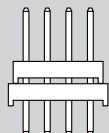
### Board Mates:

CLT, SQT, SQW, ESQT,  
TLE, SMM, MMS

### Cable Mates:

TCSD

## OTHER SOLUTIONS



Paste In Hole (PIH) processing.  
Contact Samtec ASP Group.

## ALSO AVAILABLE (MOQ Required)

- Other platings  
Contact Samtec.

Specify stacker  
height in (0.13 mm)  
.005" increments

(2.00 mm)  
.0787 pitch

Choice of  
one through  
six rows

## RECOGNITIONS

For complete scope  
of recognitions see  
[www.samtec.com/quality](http://www.samtec.com/quality)



### Notes:

For added mechanical stability, Samtec recommends mechanical board spacers be used in applications with gold or selective gold plated connectors. Contact [ipg@samtec.com](mailto:ipg@samtec.com) for more information.

This Series is non-standard, non-returnable.

## Other Solutions

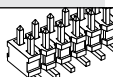
### 2 mm Shunt

See 2SN Series.



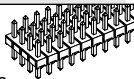
### Surface Mount

See previous page.



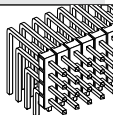
### Low Profile

See TMM Series.



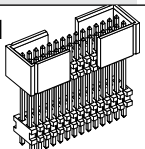
### Right-angle

See TMM Series.



### Shrouded Double Row

See ZLTMM Series.



| TW         | NO. PINS PER ROW                     | LEAD STYLE                                                                                                                                                       | PLATING OPTION                                                                                                                     | ROW OPTION                                                                                              | STACKER HEIGHT                                                                                                                                                           | TAIL SPEC |
|------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 02 thru 50 | Specify LEAD STYLE from chart below. | <p>—F = Gold flash on post, Matte Tin on tail</p> <p>—L = 10 <math>\mu</math>" (0.25 <math>\mu</math>) Gold on post, Matte Tin on tail</p> <p>—T = Matte Tin</p> | <p>—S = Single Row</p> <p>—D = Double Row</p> <p>—T = Triple Row</p> <p>—Q = Four Row</p> <p>—5 = Five Row</p> <p>—6 = Six Row</p> | <p>—"XXX" = Stacker Height in inches (0.13 mm) .005" increments<br/>Example: -250 = (6.35 mm) .250"</p> | <p>—"XXX" = Tail Length in inches (0.13 mm) .005" increments<br/>Example: -150 = (3.81 mm) .150"</p> <p>—"XXX" = Polarized Position (Specify position to be removed)</p> |           |

| LEAD STYLE | OAL           |
|------------|---------------|
| -01        | (8.20) .323   |
| -02        | (9.60) .377   |
| -03        | (13.60) .535  |
| -04        | (14.10) .555  |
| -05        | (15.10) .594  |
| -06        | (17.10) .673  |
| -07        | (19.10) .751  |
| -08        | (21.10) .830  |
| -09        | (11.60) .456  |
| -10        | (15.60) .614  |
| -11        | (10.08) .397  |
| -12        | (28.19) 1.110 |

\* Style -08 & -12 = S & D only

| ROW OPTION    | STACKER HEIGHT  |
|---------------|-----------------|
| —S, —D*, & —Q | (3.05) .120 MIN |
| —T, —5, —6    | (4.06) .160 MIN |

\* —D with stacker height greater than (4.06 mm) .160" will not have standoffs.

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

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

All parts within this catalog are built to Samtec's specifications.

Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.