

# SMT & THROUGH-HOLE BOARD STACKERS

(2.00 mm) .0787" PITCH • TW SERIES

| CLT or MMS | SQT     |
|------------|---------|
| 8          | 4       |
| G b p s    | G b p s |

## TW

### Board Mates:

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

### Cable Mates:

TCSD

## SPECIFICATIONS

### Insulator Material:

Black Liquid Crystal Polymer  
Terminal Material:  
Phosphor Bronze

### Plating:

Sn or Au over  
50  $\mu$ " (1.27  $\mu$ m) Ni

### Operating Temp Range:

-55 °C to +105 °C with Tin;  
-55 °C to +125 °C with Gold

### Current Rating:

3.9 A per pin  
(2 pins powered)

### Voltage Rating:

350 VAC/495 VDC

## PROCESSING

### Lead-Free Solderable:

Yes

### SMT Lead Coplanarity:

(0.15 mm) .006" max\*

\*(.004" stencil solution  
may be available; contact  
ipg@samtec.com)

| TW | NO. PINS PER ROW | LEAD STYLE                    | PLATING OPTION                                                                                                                                  | ROW OPTION                                   | STACKER HEIGHT                                                                                          | SM | OTHER OPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----|------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | 02 thru 36       | Specify LEAD STYLE from chart | -F<br>= Gold flash on post, Matte Tin on tail<br><br>-L<br>= 10 $\mu$ " (0.25 $\mu$ m) Gold on post, Matte Tin on tail<br><br>-T<br>= Matte Tin | -S<br>= Single Row<br><br>-D<br>= Double Row | - "XXX"<br>= Stacker Height in inches (0.13 mm) .005" increments<br><br>Example: -250 = (6.35 mm) .250" |    | - "XXX"<br>= Polarized Position<br><br>-A<br>= Alignment Pin (Metal or plastic at Samtec discretion) (4.83 mm) .190" min. board space (-D only)<br><br>-P<br>= Pick & Place Pad (1.91 mm) .075" min. post height (04-36 only)<br><br>- "X"R<br>Specify "T" for Tape & Reel<br>Specify "F" for Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)<br>(-07 lead style N/A)<br>(-06 lead style with -P option N/A as standard) |

  

| LEAD STYLE | OAL          |
|------------|--------------|
| -02        | (7.85) .309  |
| -03        | (11.86) .467 |
| -04        | (12.37) .487 |
| -06        | (15.37) .605 |
| -07        | (17.35) .683 |
| -09        | (9.86) .388  |

  

| ROW OPTION | A           |
|------------|-------------|
| -S         | (5.08) .200 |
| -D         | (6.35) .250 |

  

| 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 |

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

  

| 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 |

  

| 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.

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

## 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 for more information.

This Series is non-standard, non-returnable.

samtec.com?TW-SM or samtec.com?TW-TH