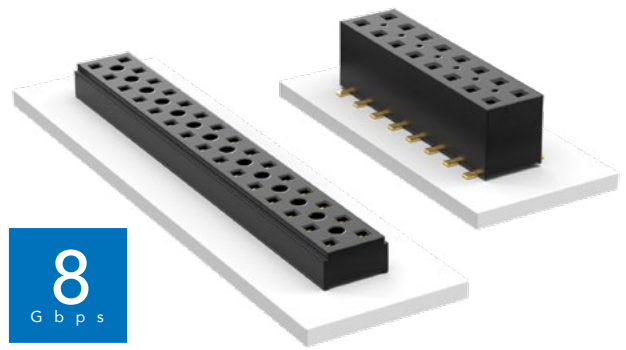


# COST-EFFECTIVE & DUAL WIPE SOCKETS

(2.00 mm) .0787" PITCH • TLE/CLT SERIES



## TLE

### Mates:

TMMH, TMM, MTMM,  
MMT, TW, LTMM, ZLTMM,  
TCMD, TSH

## CLT

### Mates:

TMM, TMMH, MTMM,  
MMT, TW, TSH

## SPECIFICATIONS

## TLE

### Insulator Material:

Black Liquid Crystal Polymer

### Contact Material:

Phosphor Bronze

### Plating:

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

### Current Rating (TLE/TMMH):

3.2 A per pin  
(2 pins powered)

### Operating Temp Range:

-55 °C to +125 °C

### Insertion Depth:

(2.08 mm) .082" to  
(4.37 mm) .172" with  
(0.38 mm) .015" wipe,  
pass-through, or  
(3.35 mm) .132" min  
for bottom entry

## CLT

Same as TLE except:

### Plating:

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

### Current Rating (TMMH/CLT):

4.1 A per pin  
(2 pins powered)

### Insertion Depth:

Top Entry=  
(1.40 mm) .055" minimum  
Bottom Entry=  
(2.57 mm) .101" minimum  
(add board thickness for  
correct post OAL)

### Max Cycles:

100 with 10  $\mu$ " (0.25  $\mu$ m) Au

## PROCESSING

## TLE

### Lead-Free Solderable:

Yes

### SMT Lead Coplanarity:

(0.10 mm) .004" max (02-25)  
(0.15 mm) .006" max (27-50)\*  
\*(.004" stencil solution  
may be available; contact  
ipg@samtec.com)

## CLT

Same as TLE except:

### SMT Lead Coplanarity:

(0.10 mm) .004" max (02-25)  
(0.15 mm) .006" max (26-34)\*  
(0.20 mm) .008" max (35-50)\*  
\*(.004" stencil solution  
may be available; contact  
ipg@samtec.com)

### Note:

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

| TLE | - 1 | NO. PINS PER ROW | - 01 | PLATING OPTION                            | - DV | OPTIONS                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----|-----|------------------|------|-------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |     | 02 thru 50       |      | -G<br>= 10 $\mu$ " (0.25 $\mu$ m)<br>Gold |      | -A<br>= Alignment Pin<br>(3 positions minimum)<br><br>-K<br>= (5.00 mm) .197" DIA<br>Polyimide Film Pick & Place Pad<br>(3 positions minimum)<br><br>-P<br>= Metal Pick & Place Pad<br>(4 positions minimum)<br><br>-TR<br>= Tape & Reel Packaging<br>(2-37 positions only)<br><br>-FR<br>= Full Reel Tape & Reel<br>(must order maximum<br>quantity per reel; contact<br>Samtec for quantity breaks)<br>(2-37 positions only) |

-P Option      -A Option

| CLT | - 1 | NO. PINS PER ROW | LEAD STYLE                                                                       | PLATING OPTION                                                                                                                                                                                                           | - D | OTHER OPTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----|-----|------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     |     | 02 thru 50       | -01<br>= Through-hole<br><br>-02<br>= Surface Mount<br><br>-03<br>= Through-hole | -F<br>= Gold flash on contact,<br>Matte Tin on tail<br><br>-L<br>= 10 $\mu$ " (0.25 $\mu$ m)<br>Gold on contact,<br>Matte Tin on tail<br><br>-G<br>= 10 $\mu$ " (0.25 $\mu$ m)<br>Gold on contact,<br>Gold flash on tail |     | All options require<br>Style -02<br><br>-BE<br>= Bottom Entry<br>(Required for bottom<br>entry applications)<br><br>-A<br>= Alignment Pin<br>(3 positions minimum)<br>Metal or plastic at<br>Samtec's discretion<br><br>-K<br>= (5.00 mm) .197" DIA<br>Polyimide Film<br>Pick & Place Pad<br>(04 thru 50 only)<br><br>-P<br>= Pick & Place Pad<br>(4 positions minimum)<br>(Not always necessary<br>for auto placement.)<br><br>-TR<br>= Tape & Reel<br>(36 positions max)<br><br>-FR<br>= Full Reel Tape & Reel<br>(must order maximum<br>quantity per reel;<br>contact Samtec for<br>quantity breaks)<br>(36 positions max) |

-01 or -03      -A Option      -P Option

| LEAD STYLE | A           |
|------------|-------------|
| -01        | (2.16) .085 |
| -03        | (2.95) .116 |

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