

# COST-EFFECTIVE RUGGED SOCKETS

(2.00 mm) .0787" PITCH • SQW/SQT SERIES



## SQW/SQT

### Board Mates:

TMMH, TMMs, TMM,  
MTMM, MMT, TW, TSH,  
LTMM, ZLTMM, PTT

### Cable Mates:

TCMD

## SPECIFICATIONS

### Insulator Material:

Black Liquid Crystal Polymer

### Contact Material:

Phosphor Bronze

### Plating:

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

### SQW Current Rating

(SQW/TMMH):

3.8 A per pin (2 pins powered)

### SQT Current Rating

(TMMH/SQT):

5.1 A per pin (2 pins powered)

### Voltage Rating:

281 VAC mated with TMM;

250 VAC mated with TMMH

### Operating Temp Range:

-55 °C to +125 °C

### SQW Insertion Depth:

(2.62 mm) .103" to

(5.03 mm) .198" with

(0.38 mm) .015" wipe

### SQT Insertion Depth:

(2.62 mm) .103" to

(5.03 mm) .198"

### Max Cycles:

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

| SQW        | 1 | NO. PINS PER ROW | 01 | PLATING OPTION                                                       | ROW OPTION                          | OPTION                                                                                                                       |
|------------|---|------------------|----|----------------------------------------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 02 thru 50 |   |                  |    | -F<br>= Gold flash on contact, Matte Tin on tail                     | -D<br>= Double Row                  | -“XXX”<br>= Polarized Position<br>-D-VS only options:                                                                        |
|            |   |                  |    | -L<br>= 10 $\mu$ " (0.25 $\mu$ m) Gold on contact, Matte Tin on tail | -D-VS<br>= Double Row Surface Mount | -A<br>= Alignment Pin (5 positions minimum)<br>Metal or plastic at Samtec discretion. (Not available with -LC)               |
|            |   |                  |    |                                                                      | -T<br>= Triple Row                  | -LC<br>= Locking Clip (5 positions minimum)<br>(Not available with -A)<br>(Manual placement required)                        |
|            |   |                  |    |                                                                      | -Q<br>= Four Row                    | -K<br>= (4.25 mm) .167" DIA Polyimide Film Pick & Place Pad (4 positions minimum)                                            |
|            |   |                  |    |                                                                      | -5<br>= Five Row                    | -P<br>= Pick & Place Pad (4 positions minimum)                                                                               |
|            |   |                  |    |                                                                      | -6<br>= Six Row                     | -TR<br>= Tape & Reel (4-28 positions only)                                                                                   |
|            |   |                  |    |                                                                      |                                     | -FR<br>= Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) (4-28 positions only) |



## PROCESSING

### SQW Lead-Free Solderable:

Yes, for -D & -D-VS

(Wave only for -T, -Q, -5 & -6)

### SQT Lead-Free Solderable:

Yes

### SMT Lead Coplanarity:

(0.10 mm) .004" max (02-10)

(0.15 mm) .006" max (11-50)\*

\*(.004" stencil solution may be available; contact

ipg@samtec.com)

| SQT        | 1 | NO. PINS PER ROW | LEAD STYLE                    | PLATING OPTION                                                       | ROW OPTION         | OTHER OPTION                                                                  |
|------------|---|------------------|-------------------------------|----------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------|
| 02 thru 50 |   |                  | Specify LEAD STYLE from chart | -F<br>= Gold flash on contact, Matte Tin on tail                     | -S<br>= Single Row | -RA<br>= Right-angle (-Q, -5 & -6 Row not available)<br>(Lead Style -01 only) |
|            |   |                  |                               | -L<br>= 10 $\mu$ " (0.25 $\mu$ m) Gold on contact, Matte Tin on tail | -D<br>= Double Row | -“XXX”<br>= Polarized Position (Indicate position number)                     |
|            |   |                  |                               |                                                                      | -T<br>= Triple Row |                                                                               |
|            |   |                  |                               |                                                                      | -Q<br>= Four Row   |                                                                               |
|            |   |                  |                               |                                                                      | -5<br>= Five Row   |                                                                               |
|            |   |                  |                               |                                                                      | -6<br>= Six Row    |                                                                               |

  

| LEAD STYLE | A            |
|------------|--------------|
| -01        | (2.29) .090  |
| -02        | (15.24) .600 |
| -03        | (5.28) .208  |

  
  

### Note:

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