

# QUAD ROW TERMINAL/SOCKET

(1.27 mm) .050" PITCH • FOLC/MOLC SERIES

MAX  
**2.6**  
A m p s

**8**  
G b p s

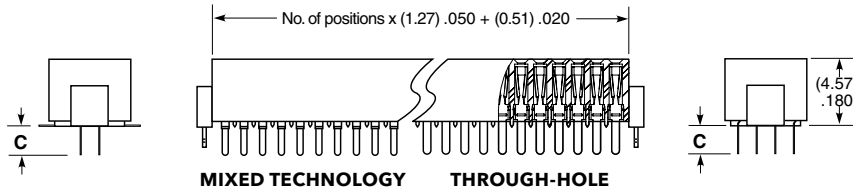
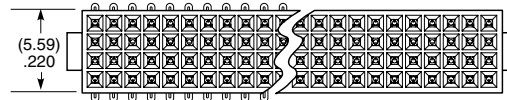
**FOLC**  
Board Mates:  
**MOLC**

**MOLC**  
Board Mates:  
**FOLC**

## SPECIFICATIONS

**Insulator Material:**  
Black Liquid Crystal Polymer  
**Contact Material (FOLC):**  
BeCu  
**Terminal Material (MOLC):**  
Phosphor Bronze  
**Plating:**  
Au or Sn over  
50  $\mu$ " (1.27  $\mu$ m) Ni  
**Current Rating:**  
2.6 A per pin  
(4 pins powered)  
**Operating Temp Range:**  
-55 °C to +125 °C  
**Voltage Rating:**  
165 VAC/230 VDC  
**Insertion Depth (FOLC):**  
(3.30 mm) .130" to  
(4.06 mm) .160"  
**Max Cycles (FOLC):**  
100

| FOLC | 1 | NO. PINS PER ROW                                     | LEAD STYLE                                                                                                        | PLATING OPTION                                                                | Q | OPTION                                               | PACKAGING                                                                                                                                                                              |
|------|---|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |   | 20, 25,<br>30, 35,<br>40, 45, 50<br>(Standard sizes) | -01 & -04<br>= Through-hole<br>-M1 & -M2<br>= Mixed Technology<br>-L1 & -L4<br>= Low Insertion Force Through-hole | -L<br>= 10 $\mu$ "<br>(0.25 $\mu$ m)<br>Gold on contact,<br>Matte Tin on tail |   | -LC<br>= Locking Clip<br>(Manual placement required) | Leave blank for tubes<br>-TR<br>= Tape & Reel<br>(-MX only)<br>-FR<br>= Full Reel Tape & Reel<br>(must order max. quantity per reel; contact Samtec for quantity breaks)<br>(-MX only) |



| LEAD STYLE | C           |
|------------|-------------|
| -01, -M1   | (1.91) .075 |
| -04, -M2   | (3.04) .120 |

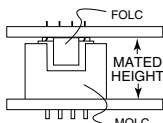
View complete specifications at: [samtec.com?FOLC](http://samtec.com?FOLC)

## PROCESSING

**Lead-Free Solderable:**  
Yes  
**SMT Lead Coplanarity (MOLC):**  
(0.10 mm) .004" max (20-25)  
(0.15 mm) .006" max (30-50)\*  
\*(.004" stencil solution may be available; contact [ipg@samtec.com](mailto:ipg@samtec.com))

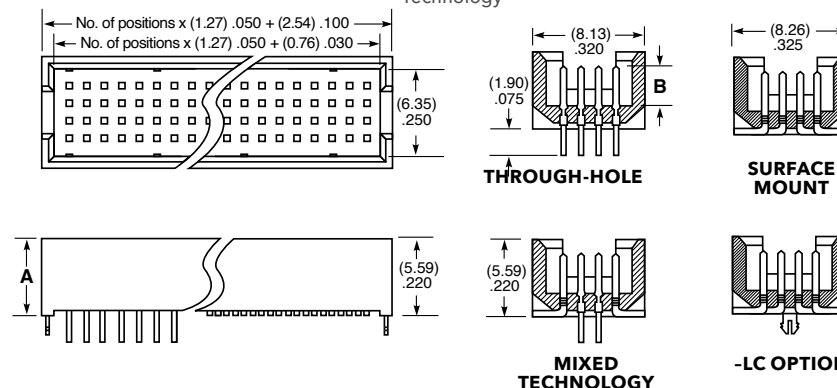
| MOLC | 1 | NO. PINS PER ROW                                     | LEAD STYLE                                                                                          | PLATING OPTION                                                             | Q | OPTION                                                                                         | PACKAGING                                                                                                                                                                                          |
|------|---|------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |   | 20, 25,<br>30, 35,<br>40, 45, 50<br>(Standard sizes) | -'X'1<br>= Through-hole (Specify from chart)<br>-02<br>= Surface Mount<br>-M1<br>= Mixed Technology | -L<br>= 10 $\mu$ "<br>(0.25 $\mu$ m)<br>Gold on post,<br>Matte Tin on tail |   | -LC<br>= Locking Clip<br>(Manual placement required)<br>-P<br>= Pick & Place Pad<br>(-02 only) | Leave blank for tubes<br>-TR<br>= Tape & Reel<br>(-02 & -M1 only)<br>-FR<br>= Full Reel Tape & Reel<br>(must order max. quantity per reel; contact Samtec for quantity breaks)<br>(-02 & -M1 only) |

## APPLICATIONS



| LEAD STYLE | MATED HEIGHT* |
|------------|---------------|
| MOLC       | FOLC          |
| -01        | (5.97) .235   |
| -11        | (7.75) .305   |
| -31        | (11.43) .450  |

\*Processing conditions will affect mated height.



| LEAD STYLE | A            | B           |
|------------|--------------|-------------|
| -01        | (5.59) .220  | (3.38) .133 |
| -11        | (7.34) .289  | (3.66) .144 |
| -31        | (11.05) .435 |             |

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

View complete specifications at: [samtec.com?MOLC](http://samtec.com?MOLC)