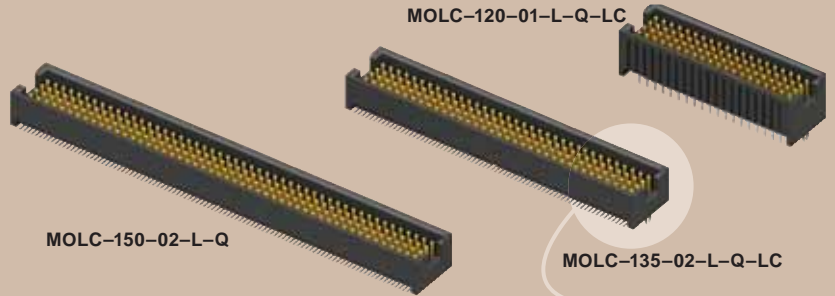




MOLC-120-01-L-Q-LC



(1,27mm) .050"

MOLC SERIES

# HIGH DENSITY HIGH REL HEADERS

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?MOLC](http://www.samtec.com?MOLC)

**Insulator Material:**

Black Liquid Crystal Polymer

**Terminal Material:**

Phosphor Bronze

**Plating:**

Au or Sn over 50µ" (1,27µm) Ni

**Current Rating:**

1A @ 80°C ambient

**Operating Temp Range:**

-55°C to +125°C

**RoHS Compliant:**

Yes

**Processing:**

Lead-Free Solderable:

Yes

**SMT Lead Coplanarity:**

(0,10mm) .004" max (20-25)

(0,15mm) .006" max (30-50)

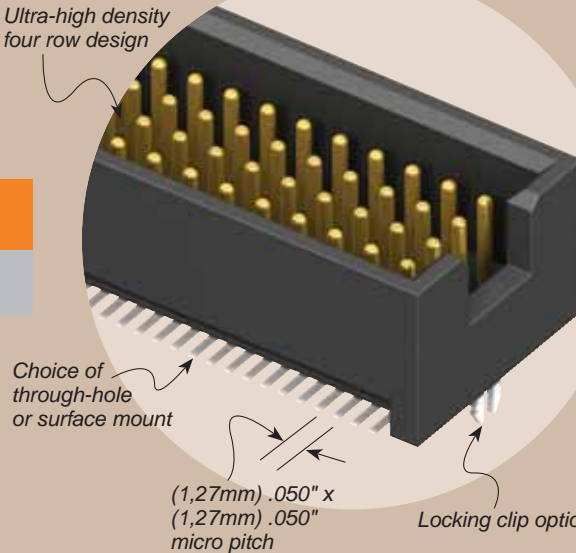


Mates with:  
FOLC

### APPLICATION SPECIFIC OPTION

Alignment pins available.  
Call Samtec.

Ultra-high density  
four row design

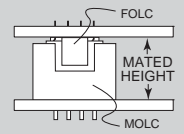


Choice of  
through-hole  
or surface mount

(1,27mm) .050" x  
(1,27mm) .050"  
micro pitch

Locking clip option

## APPLICATIONS



LEAD STYLE	MOLC	FOLC	MATED HEIGHT*
-01			(5,97) .235
-11	-01		(7,75) .305
-31			(11,43) .450
-02	-02		(6,00) .235

\*Processing conditions will affect mated height.

## ALSO AVAILABLE

- For surface mount with Tiger Eye™ contact, see [www.samtec.com?ROLC](http://www.samtec.com?ROLC)
- Also see TOLC/SOLC Series for surface mount design with Tiger Buy contacts.

**Note:** Other Gold plating options available. Contact Samtec.

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

MOLC	1	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	Q	OPTION
		20, 25, 30, 35, 40, 45, 50 (Call Samtec for other sizes)	-X1 = Through-hole (Specify from chart)  -02 = Surface Mount  -M1 = Mixed Technology	-L = 10µ" (0,25µm) Gold on post, Matte Tin on tail		-LC = Locking Clip (Manual placement required)  -P = Pick & Place Pad (-02 only)  -TR = Tape & Reel (-02 only)

MIXED TECHNOLOGY

(5,59) .220  
(3,38) .133

THROUGH-HOLE

(2,59) .102  
(0,25) .010  
(1,90) .075

SURFACE MOUNT

(1,40) .055  
(1,42) .056  
(8,26) .325  
(2,59) .102  
(3,30) .130

LEAD STYLE CHART

LEAD STYLE	A	B
-01	(5,59) .220	(3,38) .133
-11	(7,34) .289	(3,66) .144
-31	(11,05) .435	(3,66) .144

Dimensional Diagrams

No. of positions x (1,27) .050 + (2,54) .100  
No. of positions x (1,27) .050 + (0,76) .030

(3,05) .120  
(6,35) .250  
(1,27) .050 TYP  
(0,46) .018 DIA TYP  
(1,27) .050 TYP  
(0,64) .025 TYP  
(0,25) .010 TYP  
(8,26) .325  
(5,59) .220

Through-Hole = No. of positions x (1,27) .050 + (1,65) .065  
Surface Mount = No. of positions x (1,27) .050 + (1,52) .060

Optional Locking Clip (-LC)

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

WWW.SAMTEC.COM