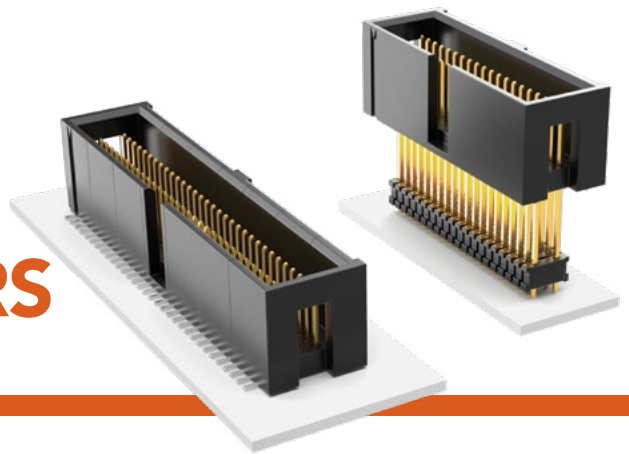# FLEX STACK

SHROUDED HEADERS & STACKERS

(1.27 mm) .050" PITCH • TML/ZML SERIES

TML/ZML
Mates:
SMS, RSM

SPECIFICATIONS

TML
Insulator Material:
Black Liquid Crystal Polymer
Insulation Resistance:
5000 MΩ min
Terminal Material:
Phosphor Bronze
Plating:
Au or Sn over
50 µ" (1.27 µm) Ni
Operating Temp Range:
-55 °C to +105 °C with Tin;
-55 °C to +125 °C with Gold

ZML
Insulator Material:
Black Liquid Crystal Polymer
Terminal Material:
Phosphor Bronze
Plating:
Au or Sn over
50 µ" (1.27 µm) Ni
Operating Temp Range:
-55 °C to +105 °C with Tin;
-55 °C to +125 °C with Gold

PROCESSING

TML
Lead-Free Solderable:
Yes
SMT Lead Coplanarity:
(0.10 mm) .004" max (05-20)
(0.15 mm) .006" max (32)*
*(.004" stencil solution
may be available; contact
IPG@samtec.com)
ZML
Same as TML except:
SMT Lead Coplanarity:
(0.15 mm) .006" max*
*(.004" stencil solution
may be available; contact
IPG@samtec.com)

ALSO AVAILABLE
MOQ Required

Other sizes
Other platings

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.

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

TML	–	1	NO. PINS PER ROW	–	LEAD STYLE	–	PLATING OPTION	–	D	–	TAIL OPTION	–	OTHER OPTION

NO. PINS PER ROW: 05, 08, 10, 20, 32 (Standard sizes)

LEAD STYLE: Specify LEAD STYLE from chart

PLATING OPTION:
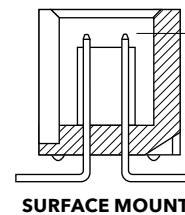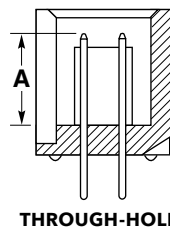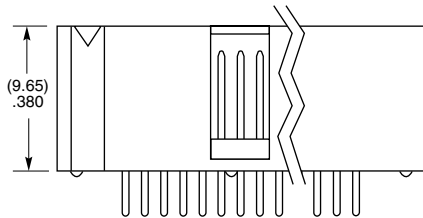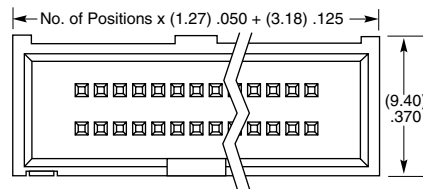–L = 10 µ" (0.25 µm) Gold on post, Matte Tin on tail
–G = 10 µ" (0.25 µm) Gold on post, Gold flash on tail

TAIL OPTION:
(Leave blank for Through-hole)
–RA = Right-angle
–SM = Surface Mount (For locking clip add –LC)

OTHER OPTION:
–"XXX" = Polarized position (Specify position of omitted pin)

← No. of Positions x (1.27) .050 + (3.18) .125 →

(9.40) .370

(9.65) .380
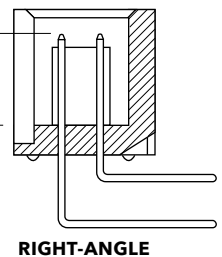
LEAD STYLE	POST HEIGHT (A)
–01	(3.05) .120
–02	(5.84) .230
–03	(4.32) .170

THROUGH-HOLE

SURFACE MOUNT

RIGHT-ANGLE

ZML	–	1	NO. PINS PER ROW	–	LEAD STYLE	–	PLATING OPTION	–	D	–	BODY HEIGHT	–	TAIL OPTION

NO. PINS PER ROW: 05, 08, 10, 20, 32 (Standard sizes)

LEAD STYLE: Specify LEAD STYLE from chart
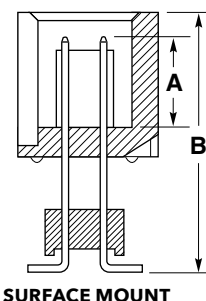
PLATING OPTION:
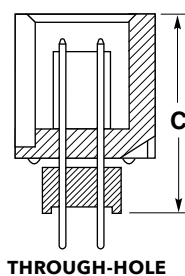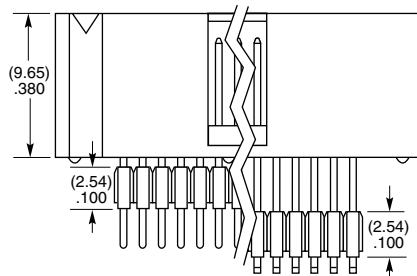–L = 10 µ" (0.25 µm) Gold on post, Matte Tin on tail
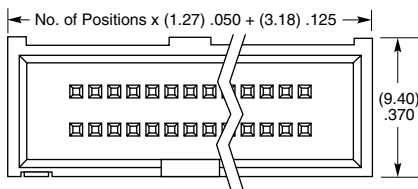–G = 10 µ" (0.25 µm) Gold on post, Gold flash on tail

BODY HEIGHT:
(Leave blank for Through-hole)
–"XXX" = –SM Body Height (Specify board space "B" in inches from lead style charts.)

TAIL OPTION:
(Leave blank for Through-hole)
–SM = Surface Mount

← No. of Positions x (1.27) .050 + (3.18) .125 →

(9.40) .370

(9.65) .380

(2.54) .100

(2.54) .100

THROUGH-HOLE

SURFACE MOUNT

	THROUGH-HOLE	
LEAD STYLE	BODY HEIGHT (C)	
–01	(12.83) .505	
–02	(14.22) .560	
–03	(16.64) .655	
–04	(19.69) .775	

SURFACE MOUNT		
LEAD STYLE	POST HEIGHT (A)	BODY HEIGHT (B)
–53	(3.05) .120	(13.46) .530 to (20.19) .795
–54	(5.84) .230	(13.46) .530 to (17.40) .685