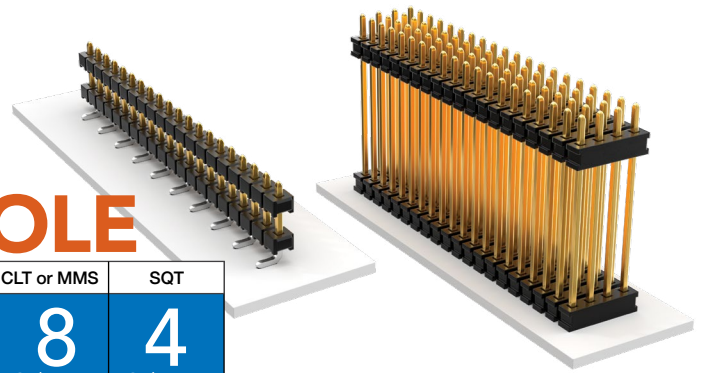


SMT & THROUGH-HOLE BOARD STACKERS

(2.00 mm) .0787" PITCH • TW SERIES

CLT or MMS	SQT
8	4
G b p s	G b p s



TW

Board Mates:

CLT, SQT, SQW, ESQT,
TLE, SMM, MMS

Cable Mates:

TCSD

SPECIFICATIONS

Insulator Material:

Black Liquid Crystal Polymer
Terminal Material:
Phosphor Bronze

Plating:

Sn or Au over
50 μ " (1.27 μ m) Ni

Current Rating:

TW-SM = 4.9 A per pin
(2 pins powered)
TW-TH = 5.2 A per pin
(2 pins powered)

Operating Temp Range:

-55 $^{\circ}$ C to +105 $^{\circ}$ C with Tin;
-55 $^{\circ}$ C to +125 $^{\circ}$ C with Gold

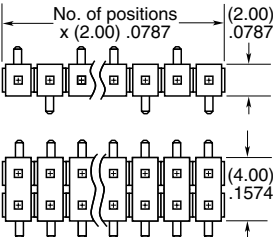
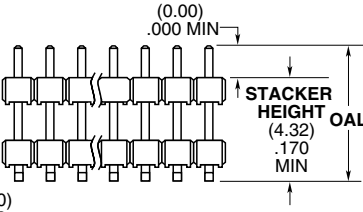
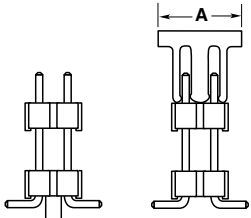
PROCESSING

Lead-Free Solderable:

Yes

SMT Lead Coplanarity:

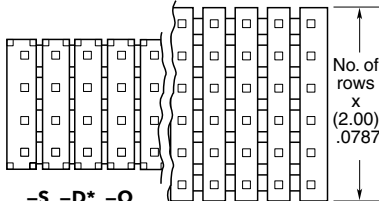
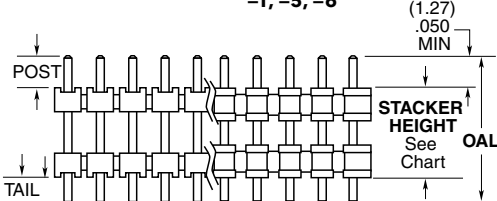
(0.15 mm) .006" max*
*(.004" stencil solution
may be available; contact
IPG@samtec.com)

TW	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION	STACKER HEIGHT	SM	OTHER OPTION																				
	02 thru 36	Specify LEAD STYLE from chart	-F = Gold flash on post, Matte Tin on tail -L = 10 μ" (0.25 μm) Gold on post, Matte Tin on tail -T = Matte Tin	-S = Single Row -D = Double Row	- "XXX" = Stacker Height in inches (0.13 mm) .005" increments Example: -250 = (6.35 mm) .250"		- "XXX" = Polarized Position -A = Alignment Pin (Metal or plastic at Samtec discretion) (4.83 mm) .190" min. board space (-D only) -P = Pick & Place Pad (1.91 mm) .075" min. post height (04-36 only)																				
				<table><tr><th>LEAD STYLE</th><th>OAL</th></tr><tr><td>-02</td><td>(7.85) .309</td></tr><tr><td>-03</td><td>(11.86) .467</td></tr><tr><td>-04</td><td>(12.37) .487</td></tr><tr><td>-06</td><td>(15.37) .605</td></tr><tr><td>-07</td><td>(17.35) .683</td></tr><tr><td>-09</td><td>(9.86) .388</td></tr></table>		LEAD STYLE	OAL	-02	(7.85) .309	-03	(11.86) .467	-04	(12.37) .487	-06	(15.37) .605	-07	(17.35) .683	-09	(9.86) .388	<table><tr><th>ROW OPTION</th><th>A</th></tr><tr><td>-S</td><td>(5.08) .200</td></tr><tr><td>-D</td><td>(6.35) .250</td></tr></table>		ROW OPTION	A	-S	(5.08) .200	-D	(6.35) .250
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Specify "T" for Tape & Reel

Specify "F" for Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)

(-07 lead style N/A)
(-06 lead style with -P option N/A as standard)

TW	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION	STACKER HEIGHT	TAIL SPEC																																	
	02 thru 50	Specify LEAD STYLE from chart	-F = Gold flash on post, Matte Tin on tail -L = 10 μ" (0.25 μm) Gold on post, Matte Tin on tail -T = Matte Tin	-S = Single Row -D = Double Row -T = Triple Row -Q = Four Row -5 = Five Row -6 = Six Row	- "XXX" = Stacker Height in inches (0.13 mm) .005" increments Example: -250 = (6.35 mm) .250"	- "XXX" = Tail Length in inches (0.13 mm) .005" increments Example: -150 = (3.81 mm) .150" - "XXX" = Polarized Position (Specify position to be removed)																																	
																																							
				<table><tr><th>ROW OPTION</th><th>STACKER HEIGHT</th></tr><tr><td>-S, -D*, -Q</td><td>(3.05) .120 MIN</td></tr><tr><td>-T, -5, -6</td><td>(4.06) .160 MIN</td></tr></table>		ROW OPTION	STACKER HEIGHT	-S, -D*, -Q	(3.05) .120 MIN	-T, -5, -6	(4.06) .160 MIN	<table><tr><th>LEAD STYLE</th><th>OAL</th></tr><tr><td>-01</td><td>(8.20) .323</td></tr><tr><td>-02</td><td>(9.60) .377</td></tr><tr><td>-03</td><td>(13.60) .535</td></tr><tr><td>-04</td><td>(14.10) .555</td></tr><tr><td>-05</td><td>(15.10) .594</td></tr><tr><td>-06</td><td>(17.10) .673</td></tr><tr><td>-07</td><td>(19.10) .751</td></tr><tr><td>-08*</td><td>(21.10) .830</td></tr><tr><td>-09</td><td>(11.60) .456</td></tr><tr><td>-10</td><td>(15.60) .614</td></tr><tr><td>-11</td><td>(10.08) .397</td></tr><tr><td>-12*</td><td>(28.19) 1.110</td></tr></table>		LEAD STYLE	OAL	-01	(8.20) .323	-02	(9.60) .377	-03	(13.60) .535	-04	(14.10) .555	-05	(15.10) .594	-06	(17.10) .673	-07	(19.10) .751	-08*	(21.10) .830	-09	(11.60) .456	-10	(15.60) .614	-11	(10.08) .397	-12*	(28.19) 1.110
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				*-D with stacker height greater than (4.06 mm) .160" will not have standoffs.		*Style -08 & -12 = S & D only																																	

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.

This Series is non-standard, non-returnable.

samtec.com?TW-SM or samtec.com?TW-TH

F-221 (Rev 19MAR21)

Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.