



(0.80 mm) .0315" PITCH • QTE/QSE SERIES

NRZ  
28  
Gbps



**QTE**  
Board Mates:  
QSE

**QSE**  
Board Mates:  
QTE

**QTE/QSE**  
Cable Mates:  
EQCD, EQDP

**Standoffs:**  
SO

QTE	PINS PER ROW NO. OF PAIRS	LEAD STYLE	PLATING OPTION	TYPE	A	OTHER OPTIONS	"X"R
	-020, -040, -060 (40 total pins per bank = -D)	Specify LEAD STYLE from Chart	-F = Gold flash on contact, Matte Tin on tail	-D = Single- Ended		-K = (7.00 mm) .275" DIA Polyimide film Pick & Place Pad	Leave blank for Tray Packaging
	-014, -028, -042 (14 pairs per bank = -D-DP)		-L = 10 μ" (0.25 μm) Gold on contact, Matte Tin on tail	-D-DP = Differential Pair (-01 only)		-L = Latching Option (N/A on -042 & -060 positions)	-TR = Tape & Reel (Not available with -05 & -07 lead style)
			-C = 50 μ" (1.27 μm) Electro-Polished Selective Gold on contact, Matte Tin on tail (passes 10 year MFG testing)				-FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) (Not available with -05 & -07 lead style)

## SPECIFICATIONS

### Insulator Material:

Liquid Crystal Polymer

### Contact Material:

Phosphor Bronze

### Plating:

Au or Sn over  
50 μ" (1.27 μm) Ni

### Operating Temp Range:

-55 °C to +125 °C

### Current Rating:

Contact:

2 A per pin (2 pins powered)

Ground Plane:

23 A per ground plane  
(1 ground plane powered)

### Voltage Rating:

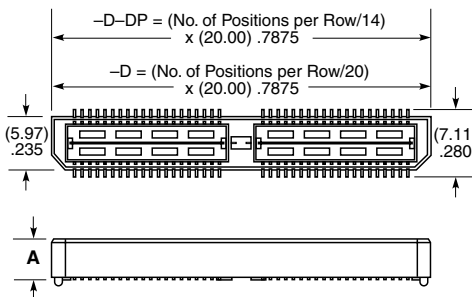
225 VAC/318 VDC

### Max Cycles:

100

QTE LEAD STYLE	A	HEIGHT WITH QSE*
-01	(4.27) .168	(5.00) .197
-02	(7.26) .286	(8.00) .315
-03	(10.27) .404	(11.00) .433
-04	(15.25) .600	(16.00) .630
-05	(18.26) .718	(19.00) .748
-07	(24.24) .954	(25.00) .984
-09	(13.26) .522	(14.00) .551

\*Processing conditions will affect mated height. See SO Series for board space tolerances.



## PROCESSING

### Lead-Free Solderable:

Yes

### SMT Lead Coplanarity:

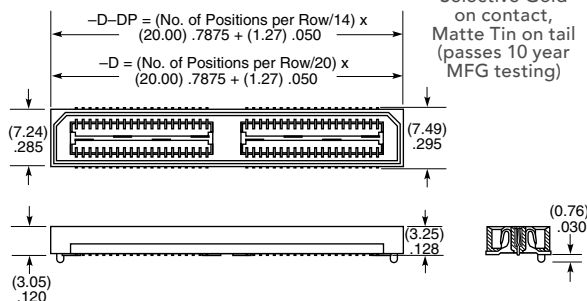
(0.10 mm) .004" max  
(020-060)

### Board Stacking:

For applications requiring  
more than two connectors  
contact ipg@samtec.com

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

QSE	PINS PER ROW NO. OF PAIRS	01	PLATING OPTION	TYPE	A	OTHER OPTIONS	"X"R
	-020, -040, -060 (40 total pins per bank = -D)		-F = Gold flash on contact, Matte Tin on tail	-D = Single- Ended		-GP = Guide Post	Leave blank for Tray Packaging
	-014, -028, -042 (14 pairs per bank = -D-DP)		-L = 10 μ" (0.25 μm) Gold on contact, Matte Tin on tail	-D-DP = Differential Pair		-K = (8.25 mm) .325" DIA Polyimide Film Pick & Place Pad	-TR = Tape & Reel (40 positions max. with -GP)
			-C = 50 μ" (1.27 μm) Electro-Polished Selective Gold on contact, Matte Tin on tail (passes 10 year MFG testing)			-L = Latching Option (Not available on -042 & -060 positions)	-FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) (40 positions max. with -GP)



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

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