

0,50mm DIFFERENTIAL PAIR QTH-DP SERIES

SPECIFICATIONS

For complete specifications see www.samtec.com?QTH-DP

Insulator Material: Liquid Crystal Polymer
Terminal Material: Phosphor Bronze
Plating: Au over 50µ" (1,27µm) Ni



Current Rating: Contact: 1.0A @ 30°C
 Temperature Rise
 Ground Plane: 7.8A @ 30°C
 Temperature Rise
Operating Temp Range: -55°C to +125°C
Voltage Rating: 125 VAC mated with QSH-DP & 5mm Stack Height

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

Mates with: QSH-DP, HQDP (See Application Specific note)



Integral ground plane
 (0,50mm) .0197" pitch

STACK HEIGHT

LEAD STYLE	STANDARD MATED HEIGHT
-01	(5,00) .198

Processing conditions will affect mated height.

APPLICATION SPECIFIC OPTION

- 30µ" (0,76µm) Gold (Specify -H plating for Data Rate cable applications)
- 8mm, 11mm, 14mm, 16mm, 19mm, 22mm, 25mm and 30mm stack height
- Edge Mount (Contact Samtec Interconnect Processing Group)
- Guide Posts
- "Partitionable" - combine differential & single-ended banks in same connector

Call Samtec.

Alignment Pin

Configuration	Near End Crosstalk	Prop. Delay	Rated at 5%	Rated at 10%
5mm Stack Height	0.62% @ 700 MHz	1.08% @ 1.40 GHz	39.0pS	700 MHz
	Impedance Mismatch (Ω)			
	100.0 to 74.4 @ 50pS	100.0 to 78.9 @ 100pS	100.0 to 89.4 @ 250pS	100.0 to 95.0 @ 500pS

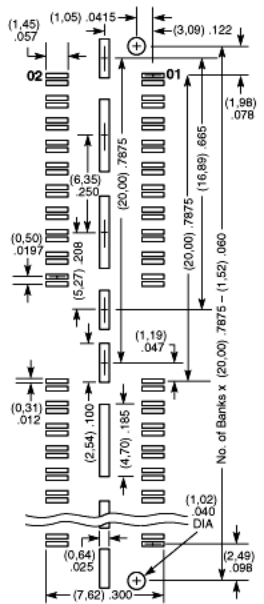
For complete Test Report logon to www.samtec.com?QTH-DP

Processing:

Max Processing Temp: 230°C for 60 seconds, or 260°C for 20 seconds 3x
Lead-Free Solderable: Yes

SMT Lead Coplanarity: (0,10mm) .004" max (020-060) (0,15mm) .006" max (080-100)

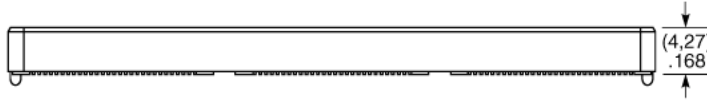
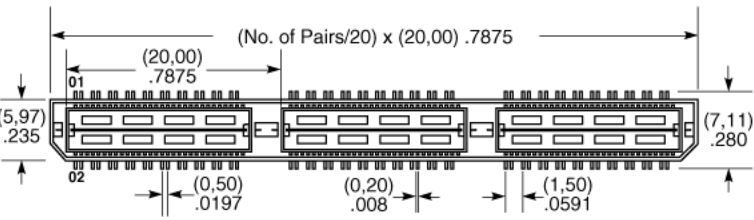
Board Stacking: For applications requiring more than two connectors per board, contact ipg@samtec.com
Suggested PCB Layouts: For reference only. Go to www.samtec.com?QTH-DP for recommended PCB layout.



-020, -040, -060, -080, -100
 (20 pairs per bank)

-L
 = 10µ" (0,25µm) Gold on Signal Pins and Ground Plane, Gold Flash on tails
-F
 = Gold Flash on Signal Pins and Ground Plane

-K
 = (7,00mm) .275" DIA Polyimide Film Pick & Place Pad
-TR
 = Tape & Reel (-060 positions maximum)



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

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