

STEP-Z

High Speed, High Density Mezzanine Connector

SPECIFICATIONS

Materials

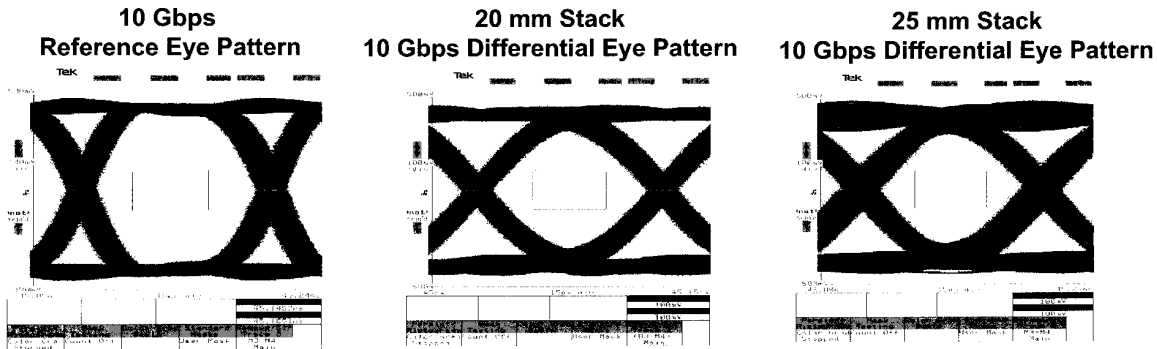
- Signal Contact: High Strength Copper Alloy
- Ground Contact: High Strength Copper Alloy
- Housing: Liquid Crystal Polymer
- Platings: Gold interface, Nickel underplate
- Solder balls: 0.76mm dia.

Ratings

- Temperature Range: -65°C to +125°C
- Current Rating: 1 A/contact @ < 30° C T-Rise
- Durability: 25 cycles
- Dielectric Withstanding Voltage 500 VAC
- Withstanding Voltage: 167 VAC max

SIGNAL INTEGRITY

- Characteristic Impedance
 - Single Ended @ 50 ohms +/-10%
 - Differential @ 100 ohms +10%/-15%
- Crosstalk
 - Multi-pair differential crosstalk < 3% @ 100ps for all stack heights



Mask Amplitude was set 25% (200mv p-p) of the input signal and mask width was set to 40% (40ps) of the input signal.

PART NUMBERS

Part Number	RoHS Part Number	Gender	Signal Positions *	Stack Height**
1-1761612-0	6-1761612-0	Plug	104	10mm
1-1761612-2	6-1761612-2	Plug	104	12mm
1-1761612-3	6-1761612-3	Plug	104	13mm
1-1761612-5	6-1761612-5	Plug	104	15mm
2-1761612-0	7-1761612-0	Plug	104	20mm
1761613-5	5-1761613-5	Rcpt	104	5mm
1-1761613-5	6-1761613-5	Rcpt	104	15mm
1-1761614-0	6-1761614-0	Plug	200	10mm
1-1761614-2	6-1761614-2	Plug	200	12mm
1-1761614-3	6-1761614-3	Plug	200	13mm
1-1761614-5	6-1761614-5	Plug	200	15mm
2-1761614-0	7-1761614-0	Plug	200	20mm
1761615-5	5-1761615-5	Rcpt	200	5mm
1-1761615-0	6-1761615-0	Rcpt	200	15mm
1-1761616-0	6-1761616-0	Plug	296	10mm
1-1761616-2	6-1761616-2	Plug	296	12mm
1-1761616-3	6-1761616-3	Plug	296	13mm
1-1761616-5	6-1761616-5	Plug	296	15mm
2-1761616-0	7-1761616-0	Plug	296	20mm
1761617-5	5-1761617-5	Rcpt	296	5mm
1-1761617-5	6-1761617-5	Rcpt	296	15mm

For availability of other position sizes or stack heights contact engineering .

STEP-Z Mated Connector Stack Height Selection

Plug Heights	Receptacle Heights	
	5mm	15mm
10mm	15mm	25mm
12mm	17mm	27mm
13mm	18mm	28mm
15mm	20mm	30mm
20mm	25mm	35mm

* For Select Loaded patterns contact engineering.

** For availability of other stack heights contact engineering.