Meritec 4X Feed-Thru Connector
Test 494 Project 1443
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Sample Tested
Meritec's 4X Feed-Thru connector P/N 984001-004-L and 984001-004-T

Results
The loss thru the combination of the Feed-Thru connector and two (2) 4X male connectors is approximately equal to the loss of ¾ meter of raw 28-awg cable. The loss is less than 1dB out to 2GHz.

Test Equipment
Tektronix CSA8200/80E04, Digital Sampling Oscilloscope/TDR
atSpeed’s Oculus™ for S-parameter extraction from TDR measurements
Meritec’s 601199 Rev A 4X test boards
Impedance

Approximate risetime = 100psec (20-80%)
Green trace = thru device
Violet trace = open after 1st 4X male
Yellow trace = open after Feed-Thru

Impedance of mated connectors- 98 to 107 ohms @ 100 psec risetime
(IB specs: 90 to 110 ohms)

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<tr>
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<th>100ps (%)</th>
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<tbody>
<tr>
<td>Risetime (20-80%)</td>
<td>100ps (%)</td>
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<tr>
<td>1st neighbor</td>
<td>0.54</td>
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<tr>
<td>2nd neighbor</td>
<td>0.12</td>
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(IB specs: less than 4%)