



## 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

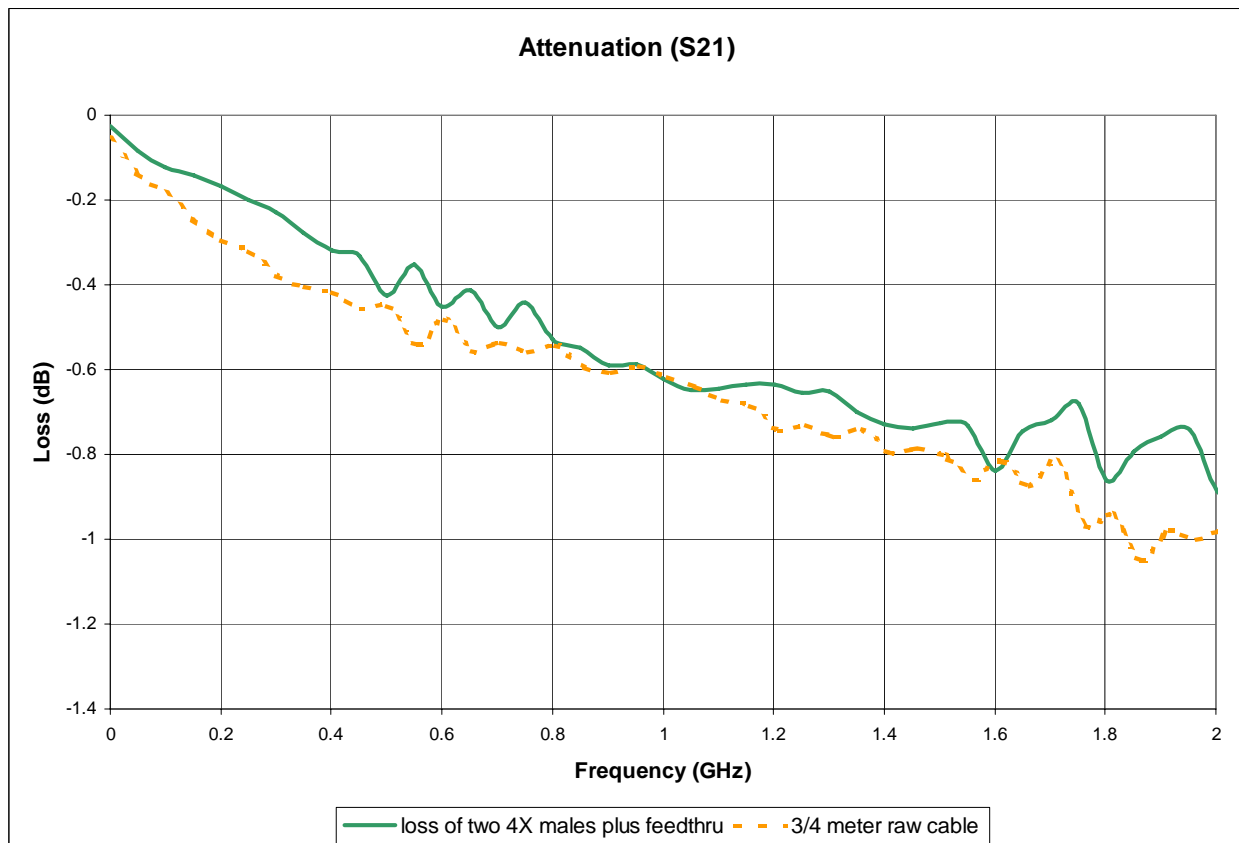
The loss thru the combination of the Feed-Thru connector and two (2) 4X male connectors is approximately equal to the loss of  $\frac{3}{4}$  meter of raw 28-awg cable. The loss is less than 1dB out to 2GHz.

### Test Equipment

Tektronix CSA8200/80E04, Digital Sampling Oscilloscope/TDR

atSpeed's *Oculus*<sup>TM</sup> for S-parameter extraction from TDR measurements

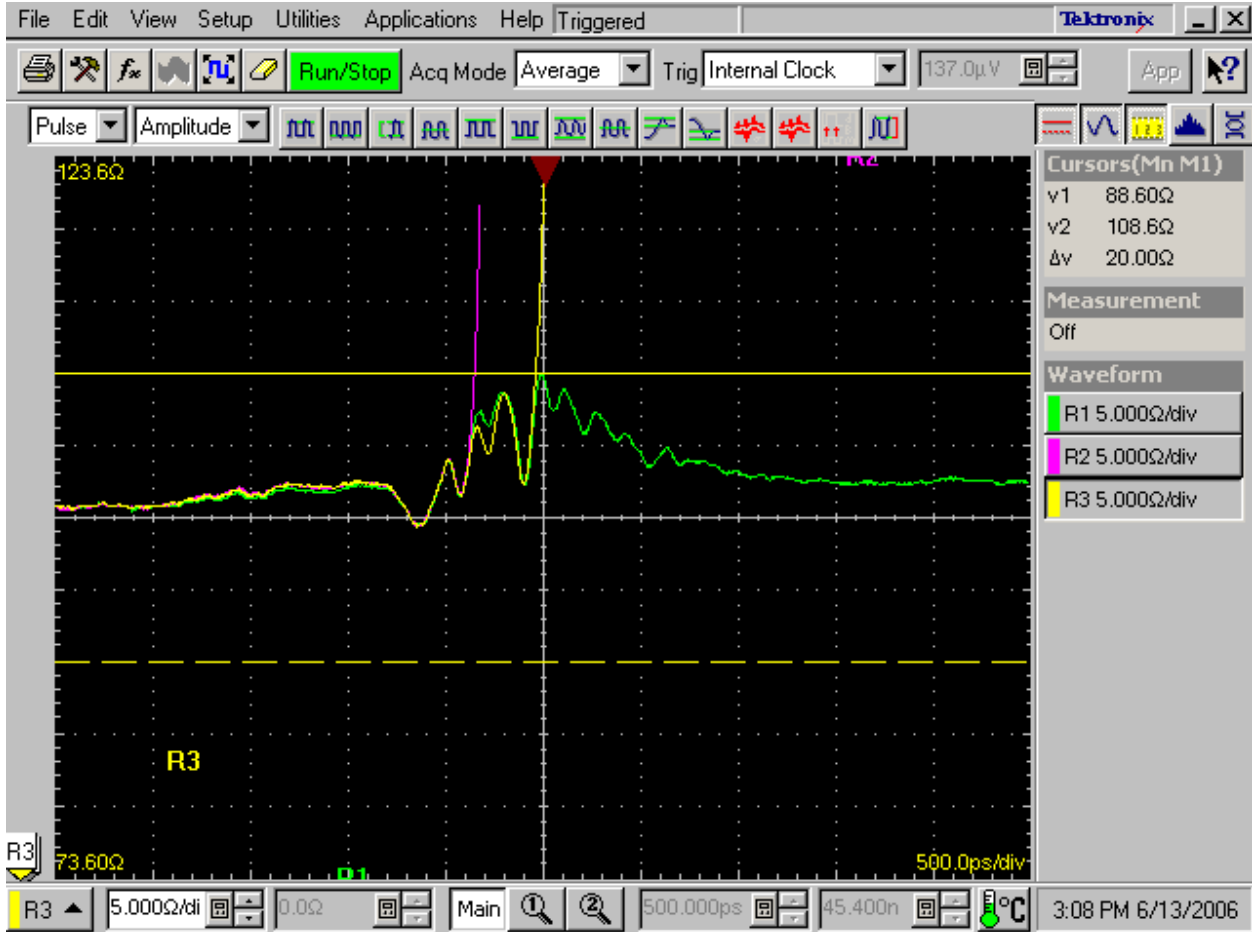
Meritec's 601199 Rev A 4X test boards



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**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)

**NEXT**

Risetime (20-80%)	100ps (%)
1 <sup>st</sup> neighbor	0.54
2 <sup>nd</sup> neighbor	0.12

(IB specs: less than 4%)

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