



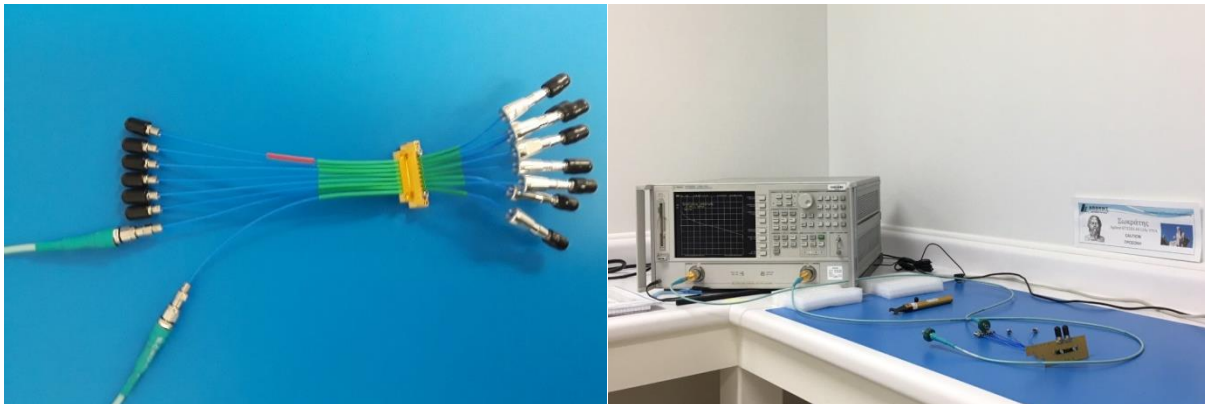
TR Series™ Cross-Talk Expectations in a Blind Mate Application

Purpose:

The purpose of this application note is to show cross-talk results from a six-inch, 8 Channel Right Angle TR™ assembly Blind-mated to a three-inch 8 Channel Straight Mount TR™ assembly.

Measurement Setup:

- Agilent 8722ES Vector Network Analyzer
- Two signal microwave 2.92mm end launches
- Step type sweep
- 25ps rise time
- 300Hz Intermediate Frequency Bandwidth
- 801 data points
- TDR: -0.1 to 1.9 ns
- TDR low pass step



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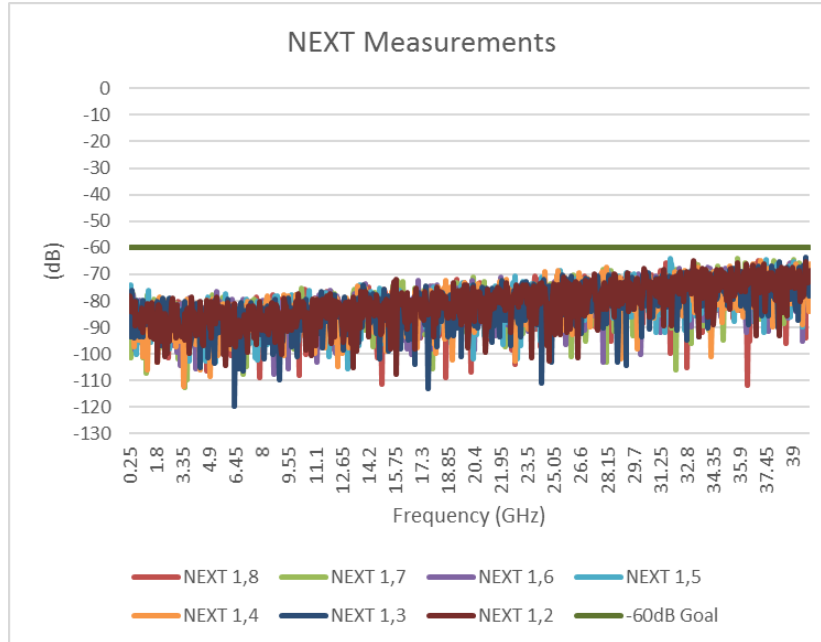
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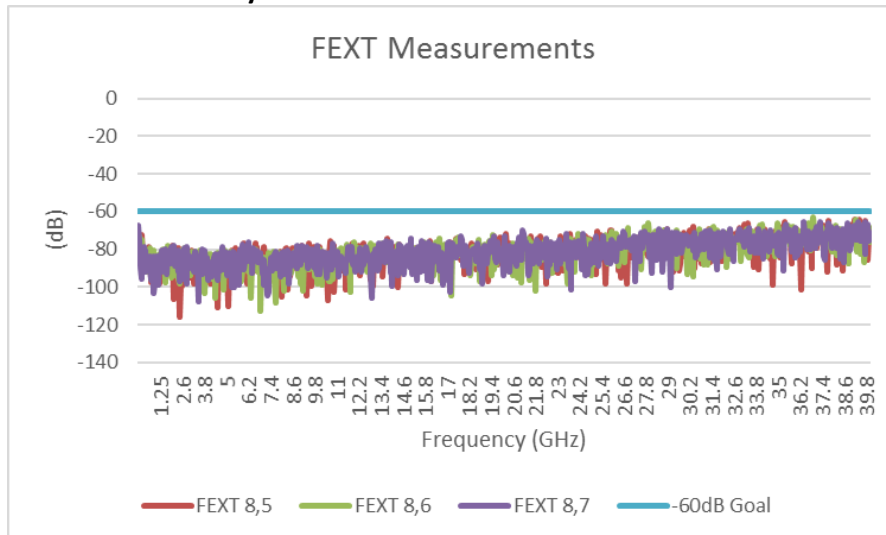
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The following graph shows NEXT measurements taken from a 6" 8 Channel Right Angle TR™ assembly Blind-mated to a 3" 8 Channel Straight Mount TR™ assembly



The following graph shows FEXT measurements taken from a 6" 8 Channel Right Angle TR™ assembly Blind-mated to a 3" 8 Channel Straight Mount TR™ assembly



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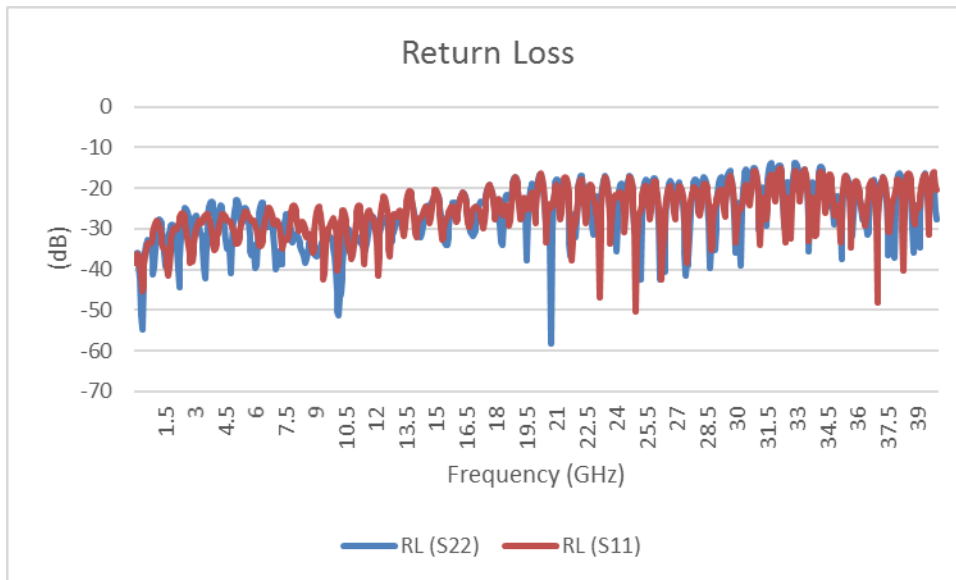
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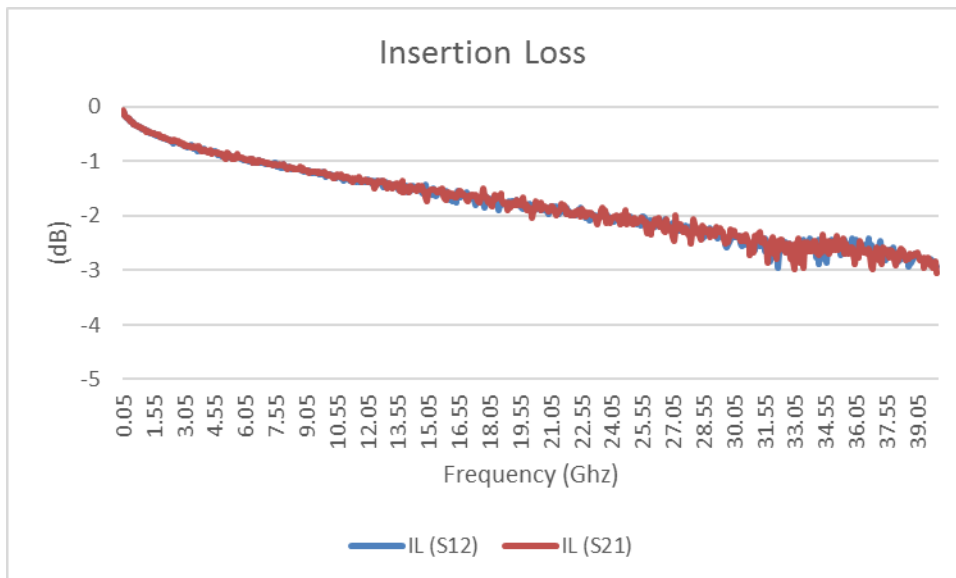
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The following graph shows Return Loss measurements:



The following graph shows Insertion Loss measurements:



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Who is Amphenol Ardent Concepts?

Amphenol Ardent Concepts is a leading designer and manufacturer of high performance multicoax and coaxial assemblies, connectors, and sockets used in the development of next generation semiconductors and electronics systems. Our core technology is the smallest, fastest, most electrically efficient compression mount connector technology worldwide. As data rate requirements increase and devices and systems shrink, Ardent's products deliver superior signal integrity in a dense footprint that can be reusable across programs to maximize cost savings.

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