



TR Multicoax Series 20/40/70

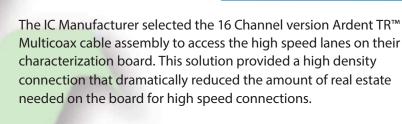
28 Gbps Validation of Optical Network Boards

Market: Semiconductor Application: Functional Test

Challenge

A major IC Manufacturer was developing a next generation chipset with multiple lanes of high speed SerDes for a highly integrated, scalable metro transport solution with reduced power, cost and complexity. The characterization board for this chipset had nearly 400 channels and the customer was seeking the most cost effective method to connect all of the high speed lanes out to test instrumentation for performance validation.

Solution



Benefits

- Improved repeatability of measurements
- Reduced the component cost of the PCB
- Eliminated the need for traditional surface mount connectors like SMAs and SMPs

More Information

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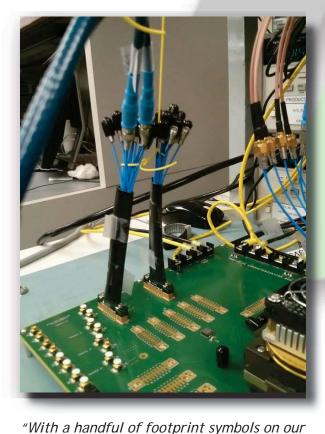
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Specifications subject to change without notice US Patent Numbers 6,787,709, 6,909,056, 7,126,062, 7,556,503, 8,926,342. © Ardent Concepts 2016 Revision 4/2016

boards, TR Multicoax granted us access to all the channels we needed in a fraction of the

- SerDes Characterization Engineer

PCB real estate."





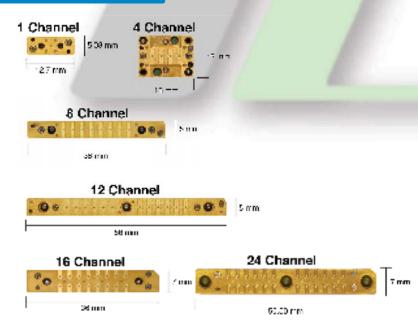
Specifications

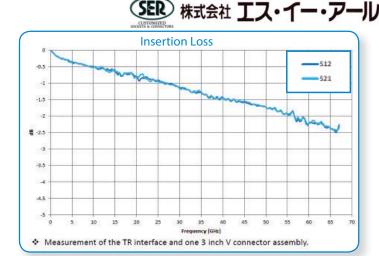
Electrical Specifications		
Frequency Range	DC to 70 GHz	
Return Loss ¹	-18 dB through 70 GHz	
Insertion Loss ²	-1.5 dB through 40 GHz, -3 dB through 70 GHz	
Crosstalk	-70 dB through 70 GHz	
Impedance ¹	50 Ω +/- 2.5 Ω	
Phase Matching	+/- 2 ps standard	

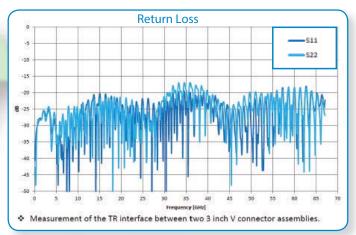
Mechanical Specifications		
Pitch	2.54 mm	
Cables	.047" diameter cables ³	
Connectors	SMA, SMK (2.92 mm), or V (1.85 mm)	
Cable Length	6"/152 mm, 12"/304 mm, 24"/ 608 mm	
Insertion Life	1,000+ mating cycles	
Field Replaceable Interface	Yes	
Footprint	Microstrip & Stripline compatible	

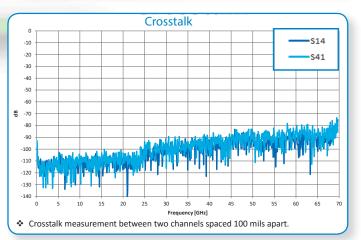
Notes: ¹Largely a function of PCB design. ²Measurement includes 3" of cable. ³Consult factory for additional cable options.

Footprints









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