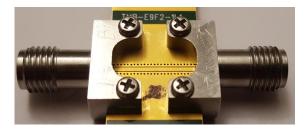
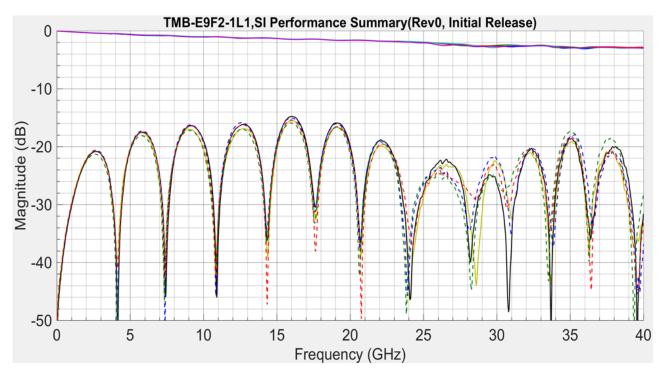


Test and Measurement Performance Report

Part Number TMB-E9F2-1L1 (2.92mm Edge Launch Solderless Precision Connector) **Distribution**: *Internal & External Use*



SI Performance Summary (Attenuation & Reflections, Single-Ended)



* 10 connectors are shown, measured in pairs. (5 measurements) For further details regarding testing setup, configurations please see the rest of the report.

<u>REVISION:</u>	ECN INFORMATION: EC No: N/A DATE: 07/ 10 / 2020	TITLE: 2.92mm Edge Launch, Solderless Precision Connector (TMB-E9F2-1L1) CARLISLE IT CONFIDENTIAL			<u>SHEET No.</u> 1 of 10
DOCUMENT NUMBER:		SI ENGINEER:	DESIGN ENGINEER	ENGINEERING MANAGER	
RSI-TMB-E9F2-1L1_02		R.Stavoli	P. Volkov	E.Soubh	
	TEMPLATE FILENAME: SPM[SIZE_A](V.1).DOC				/[SIZE_A](V.1).DOC

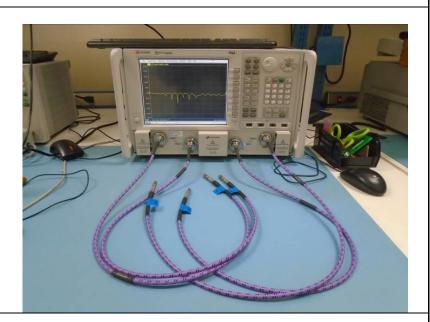


1.0 TEST SETUP AND DUT

Equipment, fixtures, and methods

Test method: All data measured from test PCB shown below and a N5227A PNA Network Analyzer

- Calibration was performed up to the 2.
 92mm adapters using calibration kit:
 8770F
- Data was swept from 10 MHz to 40GHz for 4000 points
- Data averaging was turned off.
- Data is not dembedded and includes the board trace/transition and two RF edge launch precision connectors



Assembly	Description						
● T&N	1 PN: TMB-E9F2-:	1L1					
• Carli	isle DUT PCB: Edg	ge					
Laur	 Launch Precision Connector Test Board (Rev A) Industry Leading Supplier Edge Launch PCB Port 1: 2.92mm edge mount Port 2: 2.92mm edge mount 						
Test							
• Indu							
Edge							
 Port 							
 Port 							
			0				
esting Sa	mples:						
			5 THRU Measurements (5 Channels = 10 samples) -> <mark>-Single-I</mark>	Ended			
• 5 Channels							
REVISION:	ECN INFORM	<u>IATION:</u>	TITLE: 2.92mm Edge Launch, Solderless	SHEET No.			
2	<u>EC No:</u> N/A		Precision Connector (TMB-E9F2-1L1)	2 of 10			
_		10000					

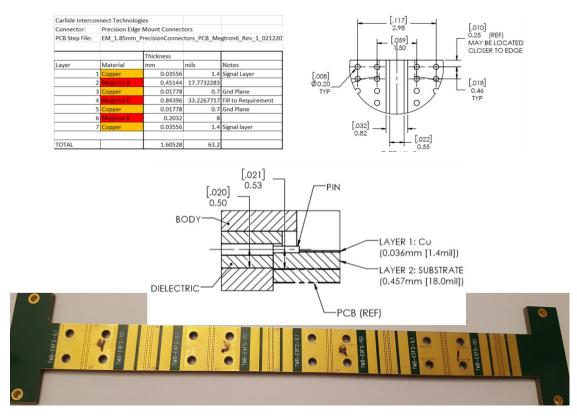
	DATE: 07/ 10 / 2020	CARLISLE IT CON	FIDENTIAL		
DOCUMENT NUMBER:		SI ENGINEER:	DESIGN ENGINEER	ER ENGINEERING MANA	
RSI-TMB-E9F2-1L1_02		R.Stavoli	P. Volkov	E.Soubh	
			TEMF	LATE FILENAME: SPM	[SIZE_A](V.1).DOC



2.0 BOARD DETAILS & STACKUP

•

- <u>Carlisle Edge Launch Precision Connector Test Board</u>
 - o Revision A, Coplanar Waveguide
 - Copper (traces, pads, ground) not all the way to the edge of the board
 - Dielectric Material: Megtron6 (Dk.3.41, Df 0.004 @ 12Ghz)
 - Thickness: 0.457mm / 18 mil



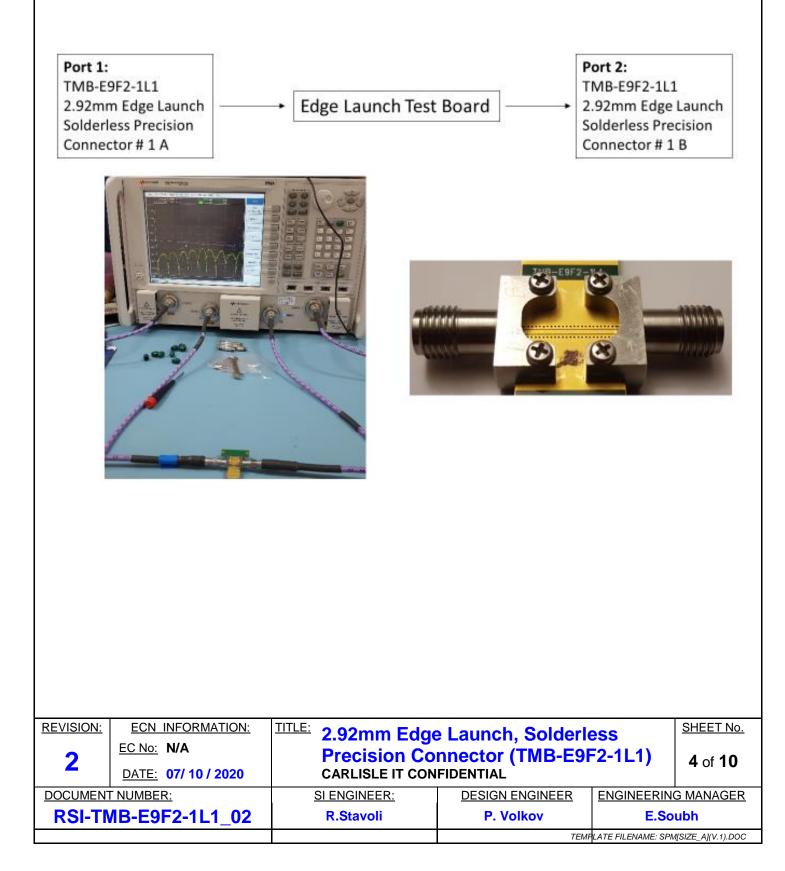
- Industry Leading Supplier Edge Launch Test Board
 - Microstrip
- Dielectric Material: Rodgers 4003 (Dk. 3.38, Df 0.0027 @ 10Ghz)
 - Thickness: 0.2032mm / 8 mil

REVISION: 2	ECN_INFORMATION: EC No: N/A DATE: 07/ 10 / 2020	TITLE: 2.92mm Edge Launch, Solderless Precision Connector (TMB-E9F2-1L1) CARLISLE IT CONFIDENTIAL			<u>SHEET No.</u> 3 of 10
DOCUMENT NUMBER:		SI ENGINEER:	DESIGN ENGINEER	ENGINEERING MANAGER	
RSI-TMB-E9F2-1L1_02		R.Stavoli	P. Volkov	E.Soubh	
			TEMF	LATE FILENAME: SPN	/[SIZE_A](V.1).DOC



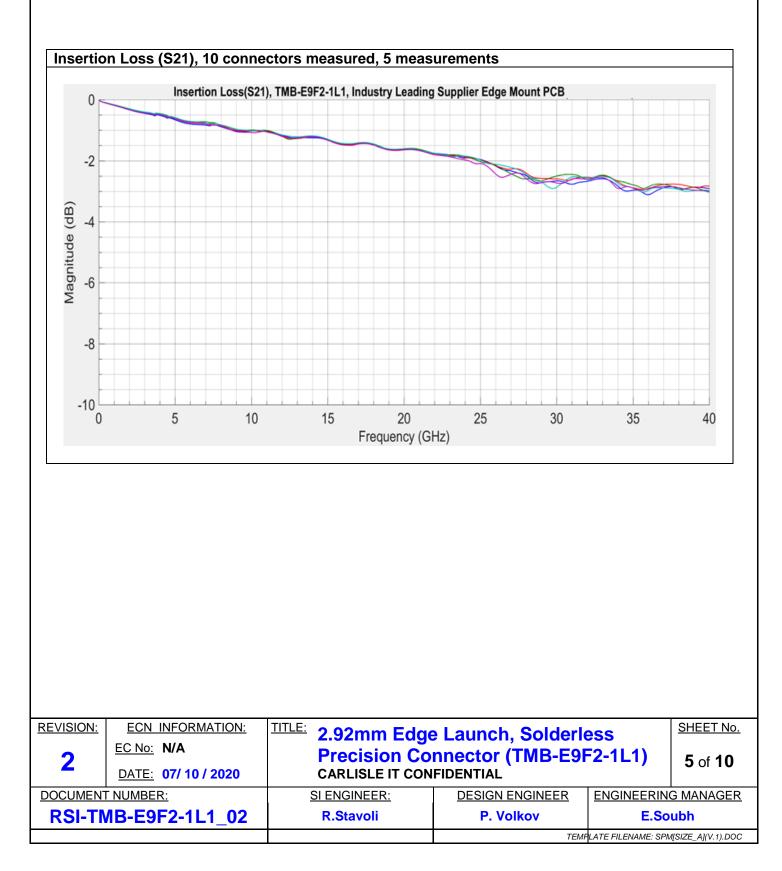
3.0 MEASUREMENT SET-UP

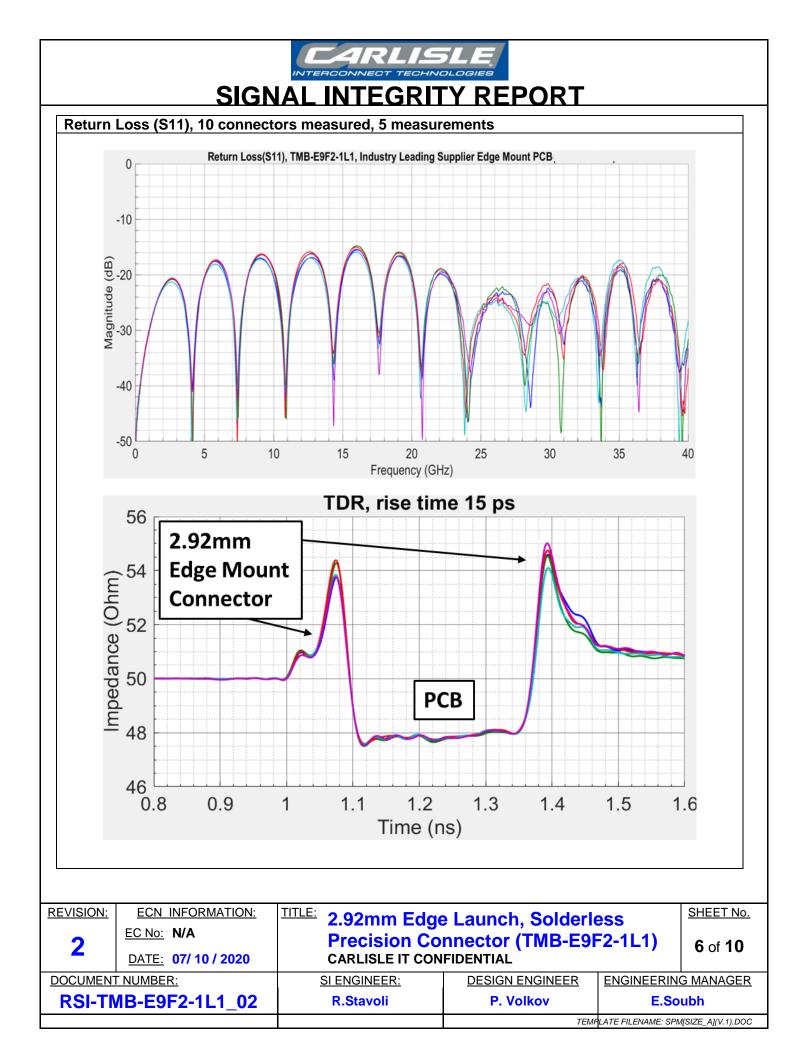
Measurements are not dembedded and include the two 2.92mm edge launch precision connectors, and the PCB (transition, traces)

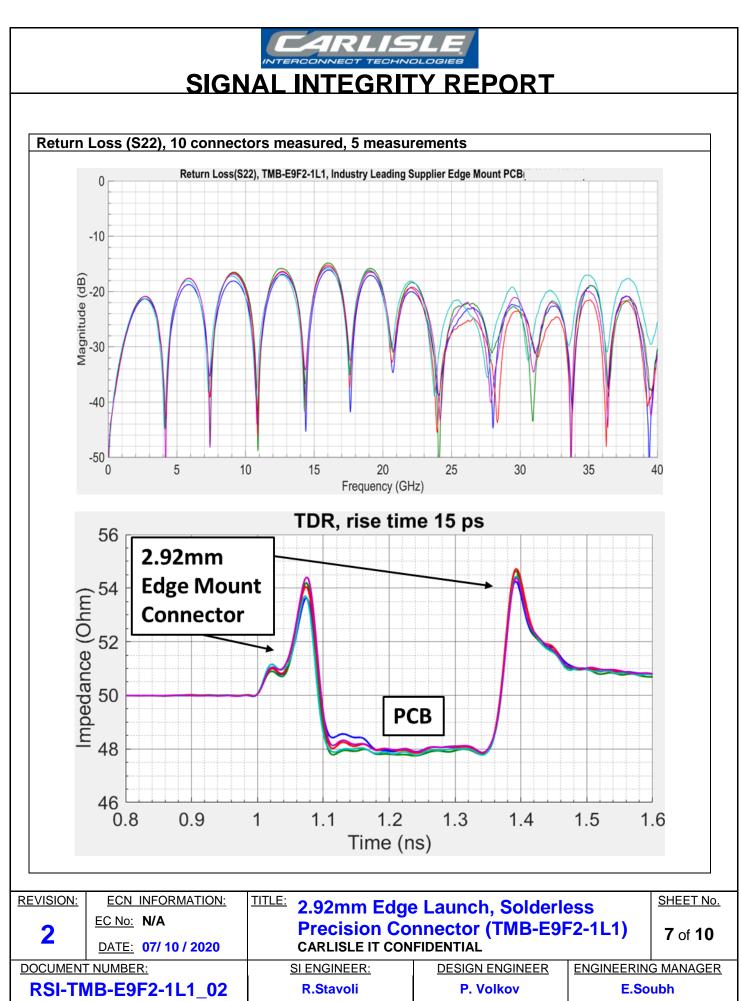




4.0 SIGNAL INTEGRITY RESULTS (INDUSTRY LEADING SUPPLIER PCB ,8MIL DIELECTRIC THICKNESS)







TEMPLATE FILENAME: SPM[SIZE_A](V.1).DOC

