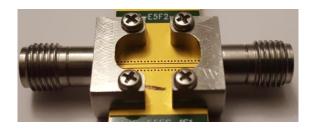
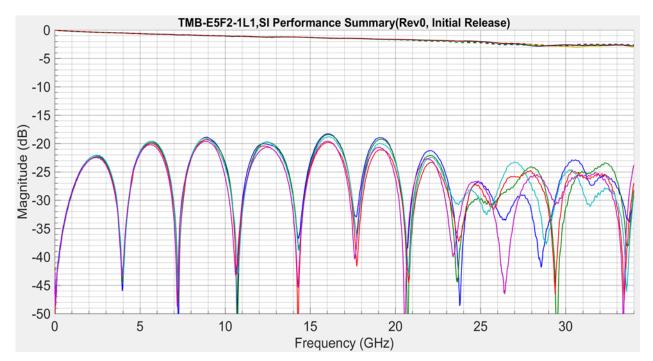


Test and Measurement Performance Report

Part Number TMB-E5F2-1L1 (3.5mm 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.

REVISION: 2	ECN_INFORMATION: EC No: N/A DATE: 07/ 10 / 2020	TITLE: 3.5mm Edge Launch, Solderless Precision Connector (TMB-E5F2-1L1) CARLISLE IT CONFIDENTIAL			<u>SHEET No.</u> 1 of 10
DOCUMENT NUMBER:		SI ENGINEER:	DESIGN ENGINEER	ENGINEERING MANAGER	
RSI-TMB-E5F2-1L1_02		R.Stavoli	P. Volkov	E.Soubh	
TEMPLATE FILENAME: SPM[SIZE_A](V.1)			n[SIZE_A](V.1).DOC		

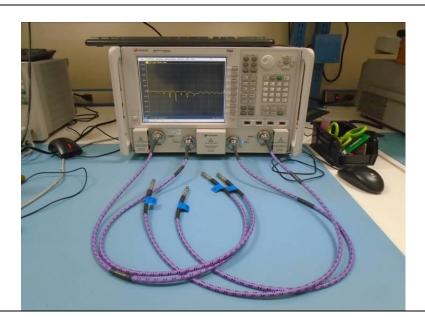


1.0 TEST SETUP AND DUT

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 34GHz for 3400 points
- Data averaging was turned off.
- Data is not dembedded and includes the board trace/transition and two RF edge launch precision connectors



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

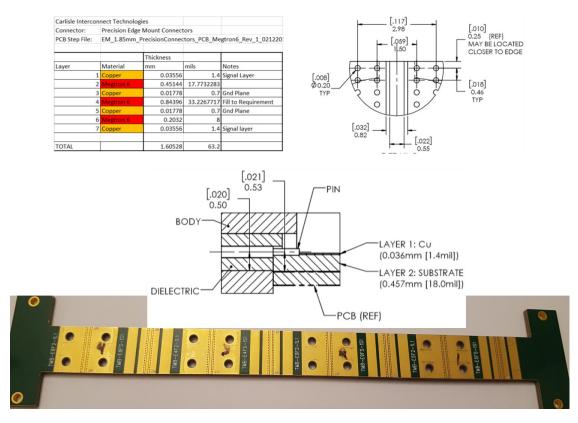
Assembly	Description						
• T&M PN: TMB-E5F2-1L1							
 Carli 	sle DUT PCB: Edg	ge					
Laur	Launch Precision Connector						
Test	Test Board (Rev A)						
• Indu	Industry Leading Supplier						
Edge	Edge Launch PCB		•				
 Port 	1: 3.5mm edge i	<mark>nount</mark>					
 Port 	2: 3.5mm edge i	nount		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NB-65£2		
Testing Sa	mplos:						
	Samples	• 5	5 THRU Measurements (5	Channels = 10 samples) -> <mark>-Single-</mark>	Inded	
	5 Channels						
REVISION: ECN INFORMATION:			TITLE: 3.5mm Edge Launch, Solderless				
2 <u>EC No:</u> N/A DATE: 07/ 10 / 2020			Dresision Compostor (TMD EEE2 414)				
		/ 2020	CARLISLE IT CONFIDENTIAL				
DOCUMENT NUMBER:		• = •	SI ENGINEER:	DESIGN ENGINEER	ENGINEERIN	G MANAGER	
RSI-TMB-E5F2-1L1_02		1 02	R.Stavoli	P. Volkov			



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: 3.5mm Edge Launch, Solderless Precision Connector (TMB-E5F2-1L1) CARLISLE IT CONFIDENTIAL			<u>SHEET No.</u> 3 of 10
DOCUMENT NUMBER:		SI ENGINEER:	DESIGN ENGINEER	ENGINEERING MANAGER	
RSI-TMB-E5F2-1L1_02		R.Stavoli	P. Volkov	E.Soubh	
			TEMF	LATE FILENAME: SPN	1[SIZE_A](V.1).DOC



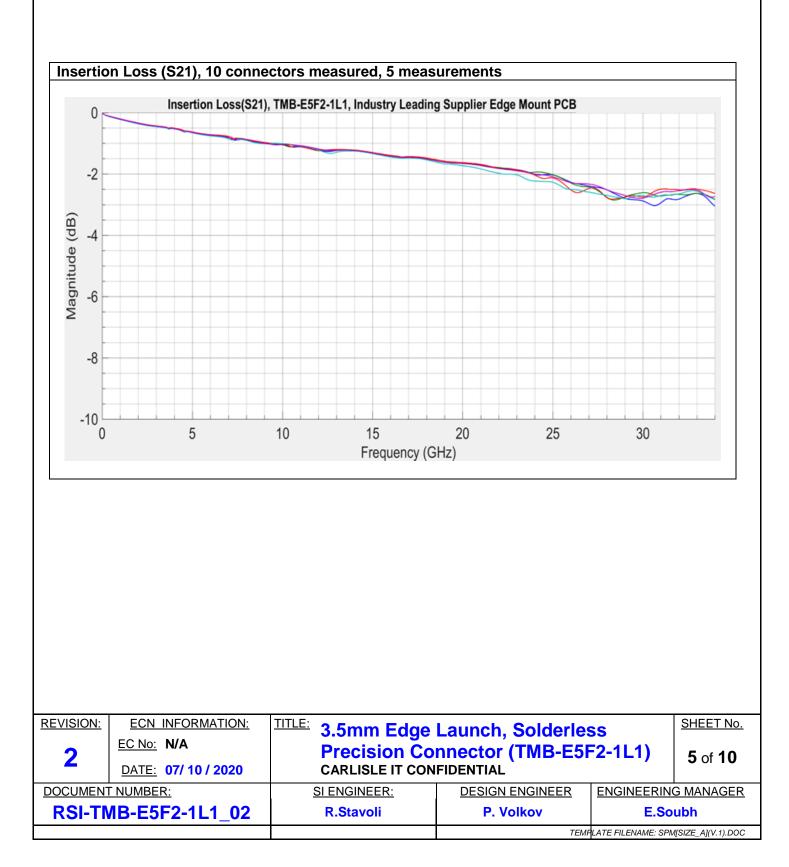
3.0 MEASUREMENT SET-UP

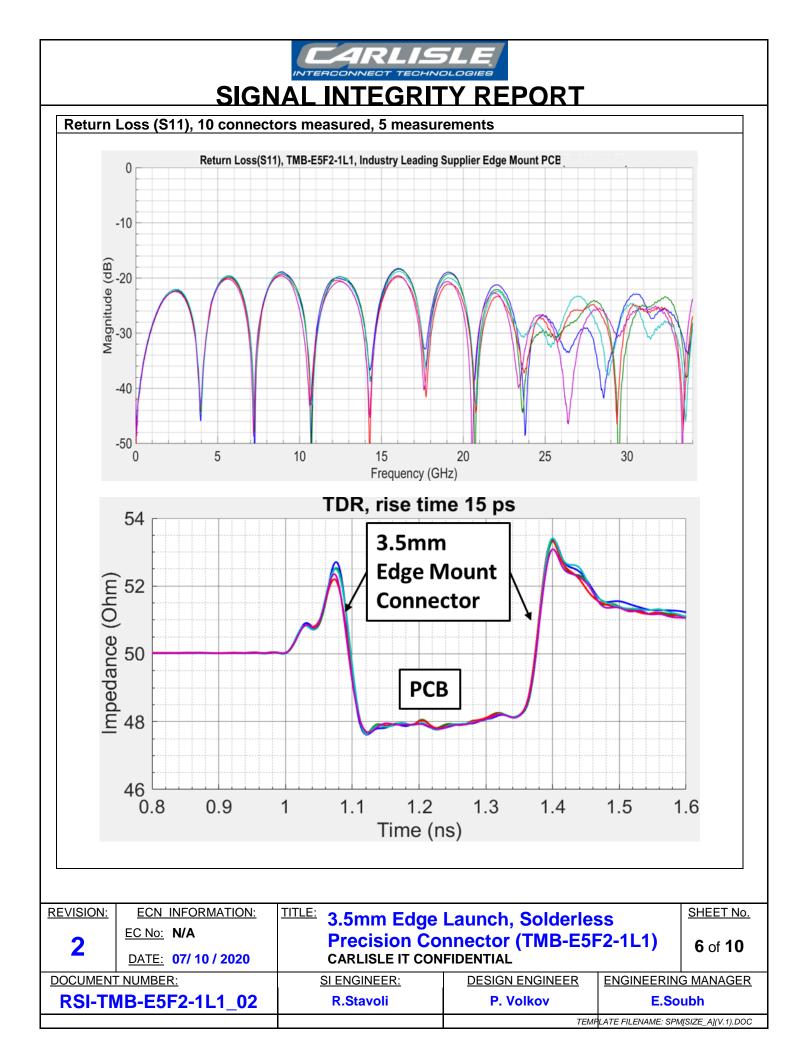
Measurements are not dembedded and include the two 3.5mm edge launch precision connectors, and the PCB (transition, traces)

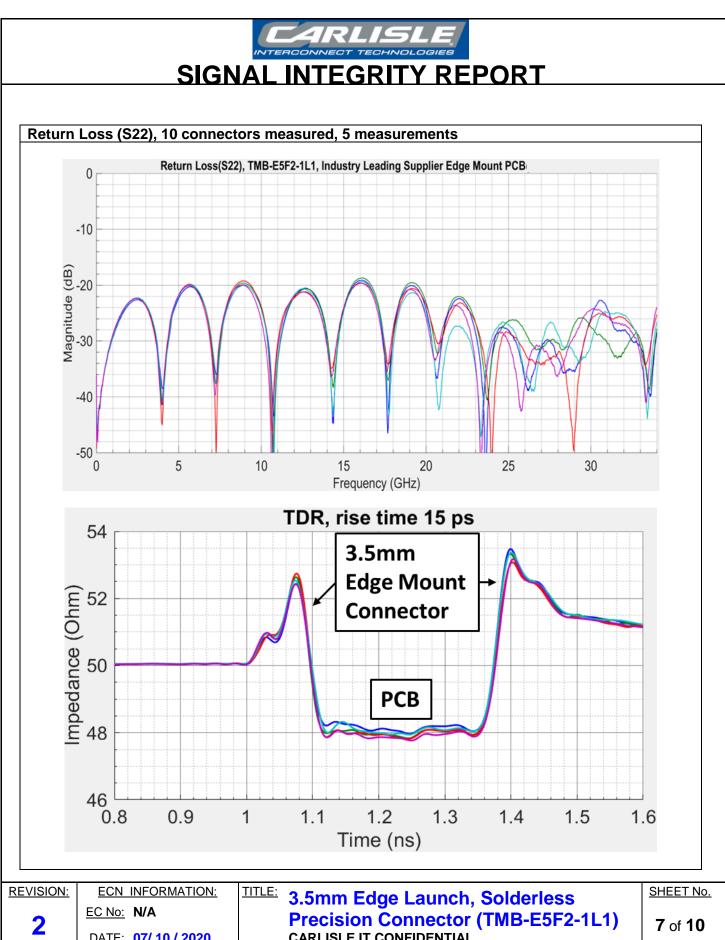




4.0 SIGNAL INTEGRITY RESULTS (INDUSTRY LEADING SUPPLIER PCB ,8MIL DIELECTRIC THICKNESS)







2	DATE: 07/ 10 / 2020	CARLISLE IT CON	2-1L1) 7 of 10	
DOCUMENT NUMBER:		SI ENGINEER:	DESIGN ENGINEER	ENGINEERING MANAGER
RSI-TMB-E5F2-1L1_02		R.Stavoli	P. Volkov	E.Soubh
			TEMF	LATE FILENAME: SPM[SIZE_A](V.1).DOC

