

Strip Line SL 90

- EMC tests for vehicle components immunity to RF fields
- Conformity with the requirements of ISO 11452-5
- Efficient power conversion provides high field with minimum power

Range of Application

The Strip Line SL 90 is used to generate homogeneous electromagnetic fields. It is specified in ISO 11452-5 'Road Vehicles electrical disturbances through radiated narrow-band electromagetic energy: Measurement Procedure for components part 5: Strip Line'.

The SL 90 is used for testing electrical/electronic sub modules (EUB) and their associated cables.

This method allows the generation of high field strength with minimum power.

Description

The Strip Line SL 90 consists of two parallel metal plates. The EUT is arranged in the middle between these plates. The largest outer dimension of the EUT should not be more than 1/3 of the plate distance. The ground is on the lower plate and the isolated upper plate is supplied with RF energy. Between the plates, an electromagnetic field will be established.

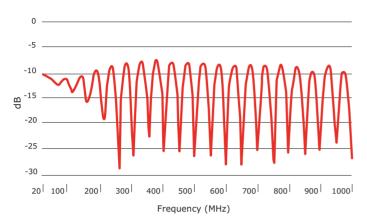
A typical test configuration consists of Signal Generator, Power Amplifiers, Power Meters and SL 90. To avoid interactions with the environment, the test should be run in an anechoic test chamber.

Return Loss dB	VSWR X:1	Return Loss dB	VSWR X:1
1	17.33	11	1.78
2	8.78	12	1.67
3	5.83	13	1.58
4	4.42	14	1.5
5	3.57	15	1.43
6	3.01	16	1.38
7	2.62	17	1.33
8	2.32	18	1.29
9	2.1	19	1.25
10	1.92	20	1.22

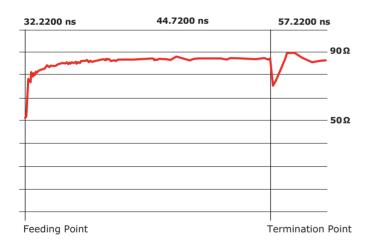




Return Loss



TDR Typical Impedance



		Specifications
10kHz to 200MHz	Input power for 10 V/m	approx. 50mW (17 dBm)
150W	Distance between the plates	150mm
N-Typ, 50Ω , female	Dimensions (without frame)	3.5m x 0.9m x 0.17m
90Ω	Environment	indoor
	$150W$ N-Typ, 50Ω , female	$150W$ Distance between the plates N-Typ, 50Ω , female Dimensions (without frame)