

TPL 3000 TRI-PLATE LINE 10 kHz TO 1 GHz



- EMC tests for vehicle components immunity to RF fields
- Meets the requirements of SAE J1113-25 and MES PW 67600A:2001
- Efficient power conversion provides high fields with minimum power
- N-Connectors for 50 Ω line feed and termination load

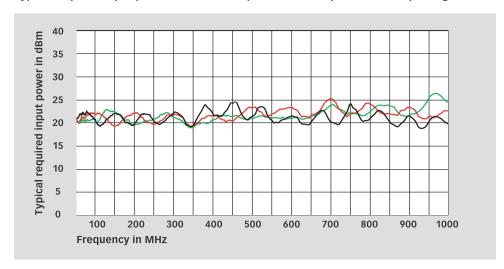
The Tri-Plate test method is specified in the surface vehicle standard SAE J1113-25 "Electromagnetic Compatibility Measurement Procedure for Vehicle Components-Immunity to Radiated Electromagnetic Fields, 10 kHz to 1 GHz" and applicable for testing products such as air-bag control modules, engine and transmission control modules and other subsystems and their associated cables. The EUT height should be less than 1/3 of the distance between septum and outer plates. The Tri-Plate Line (TPL) works as an open TEM cell. It is a broadband parallel-plate construction with grounded top and bottom outer plates and an isolated center-plate. When RF signals are input at one end, the TPL will generate an electro-magnetic field between the plates. The opposite end is terminated with a 50 Ω load. A typical test configuration consists of signal generator, power amplifiers, power meters, TPL, 50 Ω load and (absorber lined) shielded room.

The TPL 3000 is designed as specified in the SAE J1113-25. The TPL 3000 is shipped in a transportable form with complete assembly instructions for customer on-site installation.

Technical specifications

Frequency range:	10 kHz to 1 GHz
Max. input power:	1000 W
Connectors:	N-type, 50 Ω, female
Typical impedance:	72 Ω
Input power for 10 V/m:	approx. 0.2 W (23 dBm), see graph
Distance between the plates:	300 mm
L x W x H:	3.0 m x 1.2 m x 1.65 m (including ground plane and table)

Typical required input power for 10 V/m, — position left, — pos. centre, — pos. right

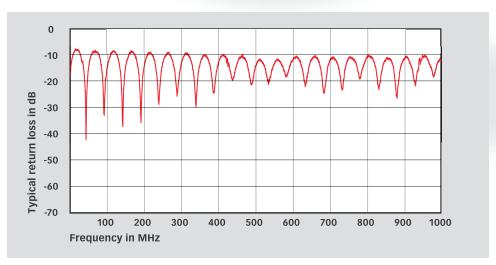




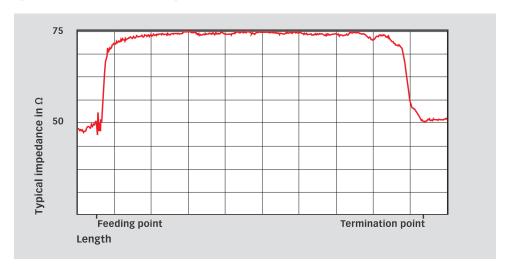


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Typical return loss



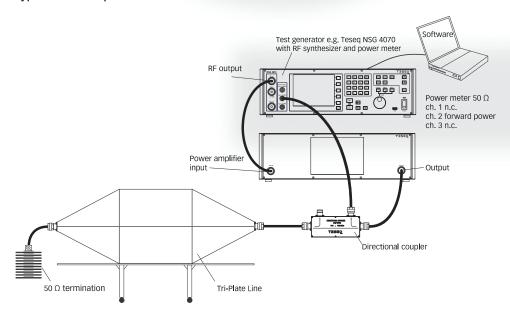
Typical impedance versus length





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Typical test setup



Model No. and options

Part number	Description
241001	TPL 3000
	Tri-Plate Line as specified in SAE J1113-25, 10 kHz to 1 GHz

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