



DTEM TEM CELL FOR EMISSIONS AND IMMUNITY TESTING



DTEM cell with optional under-carriage with locking casters

- TEM cell meets ISO 11452-3 and CISPR 25
- EMC tests for vehicle components immunity to RF fields
- 300 mm septum height
- Up to 1 kW input power
- Access for field probes from the top of the cell

The transversal electromagnetic mode which can developed in the DTEM cell, provides the opportunity for doing EMC testing inside the cell. In principle, the DTEM cell is a coaxial line expanding rectangularly and with planar septum. The geometrical dimensions having a line impedance of $Z = 50 \Omega$. At the end, the line is matched by a 50Ω termination. Typical for this cell is the low power request for high field strength values.

The useable test volume is in relation to the application and required accuracy. Different EUT sizes may possible in general. The area with the homogeneous field distribution is always in the middle of the upper and lower half of the DTEM.

Applications

The DTEM cell is compliant with the requirements of ISO 11452-3 and CISPR25 and therefor suitable for testing automotive components.

Technical specifications

Height of the septum:	300 mm
Frequency range:	DC to 400 MHz
Max. input power:	1 kW
Impedance (RF ports):	50Ω
Connector type (RF ports):	N (female)
VSWR:	< 1.2 (up to 370 MHz)
Connector type (control ports):	BNC (female)
Numbers of control ports:	38
Dimensions (L x W x H in mm):	1700 x 980 x 650
Door (L x H in mm):	300 x 150
Opening, upper side for field probe:	$\varnothing 145$ mm
Weight:	approx. 45 kg

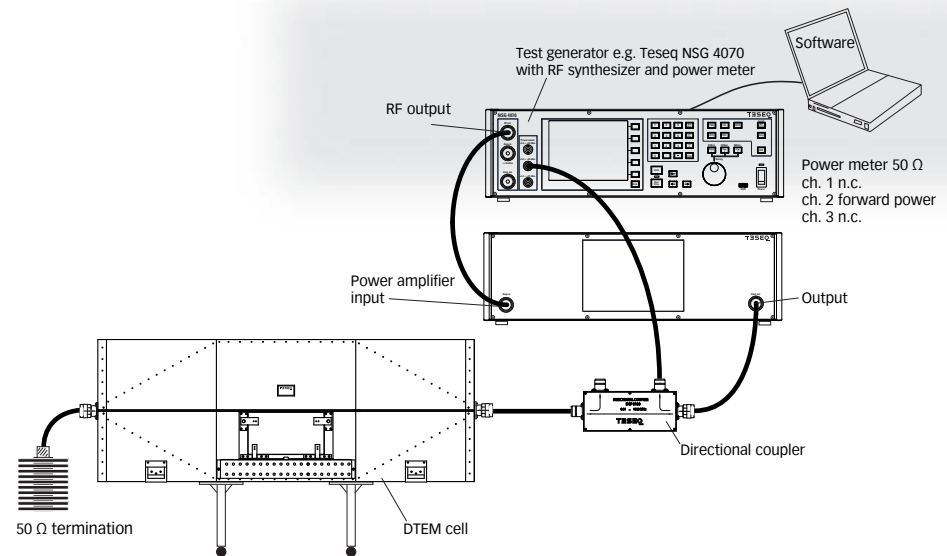
Model No. and options

Part number	Description
240401	DTEM TEM cell ISO 11452-3 and CISPR 25

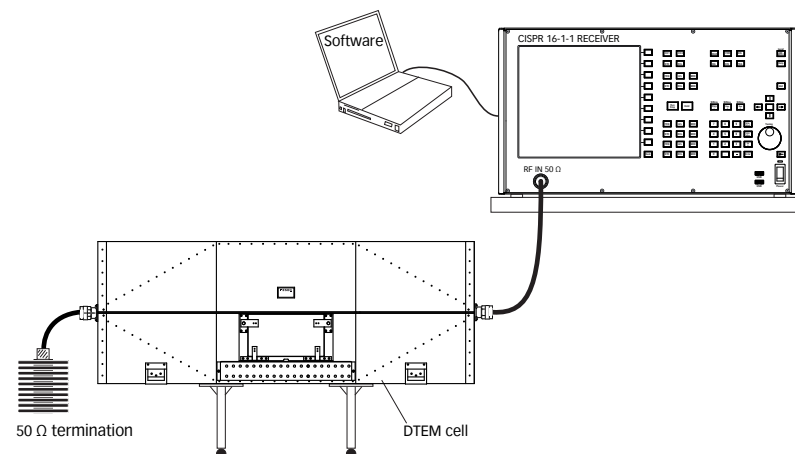


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Example setup for immunity testing



Example setup for emissions measurement



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