

## EM-2108 | Shielding Effectiveness/Conductivity Test



### Description

The EM-2108 is a standard test fixture for evaluation of the electromagnetic shielding effectiveness (SE) of planar materials. The fixture is a section of coaxial transmission line broken to allow the insertion of planar test materials. Although ASTM D4935-10 is currently limited to an upper frequency of 1.5 GHz, the EM-2108 meets and complies fully with both the impedance and SE requirements called out in ASTM test method D4935-10 up to 10 GHz. The measured data relates to the shielding effectiveness due to a plane wave (far field EM wave) from which near field values for magnetic and electric fields may be inferred. The EM-2108 is provided with a reference standard test specimen, a load standard test specimen, and a dynamic range specimen. A dynamic range of greater than 80 dB is achievable, although the cables and other test system components usually establish the limiting factors.

### Specifications

#### Electrical

**Frequency Range:** 1.5 GHz – 10 GHz

**Impedance:**  $50\Omega \pm 0.5\Omega$

**Connector:** Type N (male)

#### Mechanical

##### Dimensions:

Length: 14 cm (5.5")

Diameter: 3.2 cm (1.26")

**Weight:** 227 g (0.5 lbs.)

##### Included Accessories:

Three Specimen:

Reference Specimen

Load Specimen

Dynamic Range Specimen

DC-18GHz 10dB Attenuator (QTY 2)

##### Optional Accessories:

EM-1302-1-29.7 0.75m Cable, N(m) to N(f)

Specifications subject to change without notice, unless otherwise specified. Product is manufactured in Johnstown, NY, U.S.A.

