

## EM-2108 | Shielding Effectiveness/Conductivity Test



### Description

The EM-2108 is a standard test fixture to evaluate 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 fully complies 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

|                         |                  |
|-------------------------|------------------|
| <b>Frequency Range:</b> | 1.5 GHz – 10 GHz |
| <b>Impedance:</b>       | 50Ω ± 0.5Ω       |
| <b>Connector:</b>       | Type N (male)    |

#### Mechanical

|                 |                  |
|-----------------|------------------|
| <b>Length:</b>  | 14 cm (5.5")     |
| <b>Diameter</b> | 3.2 cm (1.26")   |
| <b>Weight:</b>  | 227 g (0.5 lbs.) |

#### Included Accessories

- Three Specimen:
1. Reference Specimen
  2. Load Specimen
  3. Dynamic Range Specimen

DC-18GHz 10dB Attenuator (QTY 2)

#### Optional Accessories

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

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

