

# ACCESSORIES and MISCELLANY for the EMI LAB



*Necessary . . . useful . . . practical items which make life in the screen room easier for the EMI engineer.*



When setting up a shielded room for full compliance with EMI specifications, it is often discovered that there are incidental items which are needed, but which have not been considered in the overall planning. Some of these items are indicated on the catalog pages under the subheading USEFUL ACCESSORIES.

This page details other items which have a useful purpose in any well managed test facility.

**Type 6920-0.5 Resistive Network.** This unit consists of a 0.5 ohm resistor in a special housing designed to plug directly into the primary terminals of the Type 6220-1A Audio Isolation Transformer. It is used to flatten the responsive curve of the test method described in Application Note 622001. The method uses the transformer as a pickup device, in lieu of a current probe, for frequencies too low for conventional EMI current probes.

**Type 7032-3 Isolation Transformer.** There are times when it is necessary to step up the power line voltages from 115 volts to 230 volts or step down 230 volts to 115 volts. This transformer is equipped with a male connector on the 115 volt winding and a female connector on the 230 volt winding. The connectors are the international style IEC-320/CEE 22. Mating plugs not supplied. Rated at 800 watts, 50-60 Hz.

**Type 7144-1.0 Precision Resistor.** A 50 watt, one ohm resistor used in Test Method RS01 to measure the current in the Type 7429-1 radiating Loop Antenna. This device is mounted in a special housing with terminals for a voltmeter. Since the resistance value is one ohm plus or minus five percent, the voltage measured on these terminals is equal to the current flowing in the circuit, up to 100 KHz.

**Type 7144-10 Precision Resistor.** A 50 watt, ten ohm resistor used in Test Method RS02, Notice 3, U.S. Army version of MIL-STD-462 and Test Method CS09, Notice 4, U.S. Navy version of MIL-STD-462. This resistor can be used where 'R' is designated in Figure CS09-1 with a voltmeter connected across it to determine the required one ampere of current. Useful, because it can cover the required frequency range and can be used up to 300 KHz. Most EMI current probes are

deficient at the low end of the range.

**Type 7835-891 Coupling Network.** A capacitive coupler for line-to-line EMI voltage measurements as required by Test Method CE07, Notice 3, U.S. Army version of MIL-STD-462. Equivalent to CU-891/URM-85. Rated at 500 V.D.C. Intended for use with 50 ohm EMI meter from 150 KHz to 30 MHz.

**Type 7835-892 Coupling Network.** A capacitive coupler similar to 7835-891 except presents 500 ohm to the circuit under test when used with a 50 ohm EMI meter. Equivalent to CU-892/URM-85.

**Type 7835-896 Coupling Network.** A capacitive coupler similar to 7835-891 except used from 20 MHz to 1 GHz. Equivalent to CU-896/URM-85.

**Type 8121-1 Adapter for Type 7021-1 Phase Shift Network.** Plugs into the terminals of the network and provides heavy duty terminals capable of carrying 200 amperes to the Equipment Under Test. Used when the EUT draws in excess of 50 amperes.

**Type 8128-1 Adapter.** Converts two single LISNs, Type 8028-50-TS-24-BNC, to a dual unit. Consists of an insulated panel fitted with banana plugs to mate with the binding posts of two LISNs.



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## ACCESSORIES AND MISCELLANY FOR THE EMI LAB (cont.)

It provides connections to a parallel blade receptacle with a U shaped grounding pin. The receptacle is identical to that used in the USA for power connections. When the Equipment Under Test contains a standard power cord, the cord can be plugged into the receptacle.

**Type 9133-1 Three Phase Capacitor Assembly for Line-to-Line Capacitance in Delta-Connected Power Systems.** This handy device contains three capacitors, ten microfarads each, connected to provide capacitance from phase A to B, A to C, and B to C. The capacitors are rated at 270 volts A.C. As a safety feature, each capacitor is paralleled with a 500K resistor to prevent a voltage charge from remaining on the assembly after power is disconnected. It is fitted with 1/4-28 feedthru studs to facilitate making connection from three phase power to a three phase load up to 100 amperes. The **Type 6512-106R** capacitor can be used for the neutral in wye-connected power systems.

Dimensions: 3.5" x 6.0" x 3.75" high.  
(89 mm x 152 mm x 95 mm)

**Type 8801-1.6 Inductor.** An air core inductor, 1.6 millihenries, for use with VDE specification 0871 A1-April 1984, DIN 57871-A1. Capable of carrying ten amperes. Three way-binding posts.

Dimensions: 2.88" x 3.8" x 2.12" high.  
(73 mm x 96 mm x 54 mm)

**Type 8814-1.5 Resistive Load.** A 300 watt 1.5 ohm load resistor designed to plug directly into the primary of the **Type 6220-1A Audio Isolation Transformer** when used with **Type 8850-1 Power Sweep Generator**. Maximum input voltage 21 volts. Although some audio power is spent in the resistor, this device stabilizes the impedance presented to the load in the CS-01 test setup.

**Type 8814-2.4 Resistive Load.** A 200 watt 2.4 ohm load resistor designed to plug directly into the primary of the **Type 6220-1A Audio Isolation Transformer** when used with **Type 8850-1 Power Sweep Generator**. Maximum input voltage 22 volts. Some of the audio power is used up in this resistor, but it will stabilize the impedance presented to the load in CS-01 tests.

**Type 8806-1 Pulse Stretching Network.** When used with **Type 8282-1 Transient Pulse Generator** and associated pulse transformer, **Type 8406-1** will provide a 20 microsecond spike up to 1,000 volts into a 50 ohm load.

