

EFG-02 E-Field Generator

Product Overview

Performance The TDK RF Solutions EFG-02 is a transmission-line type electric/magnetic field generator which provides an unprecedented level of flexibility in the generation of controlled, high-intensity electric and magnetic fields over the frequency range of 10 kHz to 100 MHz. It is capable of generating over 500 V/m over its entire operating frequency range using 2.5 kW amplifier and provides a large uniform field area, thus accommodating a very large variety of DUTs.

Non-Radiating Because the EFG-02 is a non-radiating device, the electric and magnetic fields are essentially confined to the DUT area. Also, it provides extremely low VSWR over its entire operating range thus reducing stress on the amplifier.

Unique Design The unique mechanical design of the EFG-02 greatly facilitates the characterization of unwieldy DUTs. Because of the gantry-type support structure (which requires support at only one end), heavy, large, or bulky DUTs can simply be wheeled or placed under the system with the aid of equipment (such as a pallet jack or forklift). The spacing between the transmission line conductors may be adjusted from .8 to 1.2 meters in order to accommodate DUTs of all sizes. Finally, the transmission line structure may be rotated 360 degrees about its longitudinal axis.



The ability generate controlled, high-intensity electric and magnetic fields over the frequency range of 10 kHz to 100 MHz and a unique design make the EFG-02 the best choice for conducting immunity testing on large, heavy, or bulky DUTs.

Features

- 10kHz – 100 MHz operating range
- High power field generator
- Up to 500 V/m RSM
- Low VSWR
- Adjustable height for optimizing performance

Applications

- Immunity testing on Large, heavy or bulky DUTs

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Mechanical Specifications

E-Field Generator Dimensions:	
Mounted Height:	202 cm (79.5 in.)
Width:	276 cm (108.7 in.)
Depth:	139.5 cm (55 in.)
Stand Dimensions:	
Height:	73 cm (28.8 in.)
Length:	183 cm (72 in.)
Depth:	101.5 cm (40 in.)
Weight:	80 kg (including movable stand)
Positioning Accuracy:	+/- 2 degrees
Rotation Angle:	360 deg. continuous
Construction:	Fiberglass and PVC

Electrical Specifications

Input Power:	3500 W maximum continuous
Operation Frequency:	
Range:	10 kHz – 100 MHz
Input Impedance:	50 Ω nominal
Field Strength:	Up to 500 v/M RMS

Environmental Specifications

Ambient Temperature Limits:	
Operating:	0° to +40° C
Storage:	-10° to +50° C

Ordering Information

Product:	E-Field Generator
Model Number:	EFG-02
Warranty:	1 year

To place an order or to learn more about the TDK RF Solutions products that best meet your needs, contact your TDK sales representative:

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DSEFG02061402