

Nova 1161 Dissipation Factor (DF) Tester



Features:

- Precision LCR Bridge
- PID Temperature Controllers
- Wire Form
- Calibrate/Operate Toggle Switch
- 2 Solder Pots
 - 1 common Cell and 1 Test Cell
- Test Magnet Wire Sizes:
 - 44 AWG to 12 AWG
 - (0.05 mm to 2.0 mm)
- 120 VAC / 10 Amps at 60 Hz
- 240 VAC / 5 Amps at 50 Hz

The Nova 1161 Dissipation Factor Tester measures the dissipation factor (DF) value, also known as Tangent Delta Value, of film insulated magnet wires. DF indicates the degree of cure of the magnet wire insulation. This test will determine quickly whether the insulation is cured to the desired cure range if a reference cure data was already established. A sample holder is included for testing finer wire sizes. It is capable of testing wire sizes 44 AWG - 12 AWG (0.05 mm to 2 mm).

The Nova 1161 has two test cells (solder pots), a common cell for making electrical contact with the conductor and the other cell for testing the magnet wire DF at elevated temperature. The solder pots are controlled by temperature controller to within +/- 1° C for accurate and repeatable test results.

A wire form is included for preparing consistent test samples for insertion into the solder pots.

The Nova 1161 automatically controls the amount of time a sample has been at the elevated temperature in the test cell and then momentarily turns off power to the test cells to take an accurate DF reading. The total amount of time the wire sample is in the solder pot is 60 seconds. The DF value is then displayed on the LED display.

Dimensions:

18" W x 24" D x 14" H

46 cm x 61 cm x 36 cm

Other DF Tester Models Available:

Nova 1162 — 3 solder pots (1 common cell and 2 test cells)

44 AWG – 1/4" dia. and rectangular wire up to 0.25"x0.5"

(0.05 mm – 6 mm dia. and rectangular wire up to 6 mm x 12 mm)

Design and specifications subject to change without prior notification

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