

JRE 1724B

RF Shielded Test Enclosure

Rack-shelf-friendly chamber for large-scale RF devices — enterprise mesh systems, access points, base stations and wide-screen laptops.



17 × 24 in footprint; fits a standard rack shelf

AT A GLANCE

- Roomy **11 × 15.5 × 22.5 inches** inside (280 × 395 × 570 mm) in a **17" wide × 24" deep** footprint
- Excellent isolation: **−100 dB DC to 1 GHz**, **−95 dB to 3 GHz**, **−85 dB to 6 GHz**
- **Fits any benchtop or standard sliding 19" rack shelf**
- **Two removable C-size I/O plates** — plenty of space for filters and connectors, reconfigurable as your test needs change
- Large interior for **enterprise mesh systems, access points and wide-screen laptops**
- **Internal struts hold the lid open** for easy access while connecting your device
- Two honeycomb vents — optional fan · optional **MW upgrade** to 28 GHz

DESCRIPTION

Originally designed for testing wide-screen laptops, the rack-mountable JRE 1724B suits large wireless devices — mesh network APs, cellular and LTE base stations and other large RF gear. For over-the-air work, pair it with a JRE test antenna such as the ANT-82 or ANT-245. If you do not need the full height, the JRE 1724A is the same footprint in a lower-profile version.

Featuring rugged welded aluminum construction, you can be assured of its tight RF shielding effectiveness. Long-life door gasket material along with our double-edge contact engagement provides solid RF shielding and smooth, trouble-free operation over the life of the chamber. Inside, LS-30 RF

absorbing foam tames reflections and hot-spots so measurements stay clean and repeatable.

Every JRE chamber uses a removable, CNC-machined I/O plate — a design JRE engineers originated over forty years ago. The two C-size plates recess into the chamber wall and do not intrude into your test volume. Because it swap out in the field with a few screws, one 1724B can be reconfigured for many different test setups over its life, using JRE's wide selection of filtered I/O interfaces — USB, Ethernet, power, HDMI and more.

SHIELDING ISOLATION

DC to 1 GHz	−100 dB
to 3 GHz	−95 dB
to 6 GHz	−85 dB

All JRE chambers, and many JRE filtered interfaces, can optionally be ordered with the MW upgrade for operation to 28 GHz at > 85 dB isolation. Contact the factory for details.

DIMENSIONS

Inside	11" H × 15.5" W × 22.5" D 280 × 395 × 570 mm
Outside	13" H × 17" W × 24" D 330 × 430 × 610 mm

WEIGHTS & SHIPPING

Weight	31 lb / 14.1 kg
Shipping weight	37 lb / 16.8 kg
Shipping carton	31" × 22" × 18" 790 × 560 × 460 mm

I/O PLATES & CONNECTORS

Plate size	Two JRE "C" size
Plate opening	7" × 7" (180 × 180 mm) each
Field changeable	Yes
Ventilation	Two 80 mm honeycomb vents
Rack mounting	19" sliding rack shelf

Test chambers do not include RF connectors or interface filters. Any connection to a device inside the chamber must be suitably filtered to maintain shielding isolation.

FEATURES & BENEFITS

- Double-contact door shields ensure repeatable measurements
- 3/4" (19 mm) RF absorbing foam; 90 °C rating, UL 94V-0 flammability
- Stainless steel friction hinges and internal struts hold the lid steady
- Lower-profile version on the same footprint — see JRE 1724A

CONFIGURING YOUR CHAMBER

Choose from ready-to-go, in-stock C-size I/O plates with the most common filtered interfaces and connectors and your chamber can ship in just a few days — or have a custom plate designed in about a week. Fans, vents, internal AC power strips and fiber optic connectors can all be accommodated. Use the Configuration Worksheet at jretest.com to organize your requirements.