

JRE 0709-USB-C

Pre-Configured RF Shielded Test Enclosure

Our compact 0709 chamber with a USB Type-C filtered interface already fitted and tested — ready to ship, and ready to test the day it lands.



Ships with the USB Type-C interface installed

AT A GLANCE

- **Ready to test out of the box** — the JRE USB C-1 filtered interface and two SMA feedthroughs are installed, wired and final-tested at the factory
- **Transparent to USB 2.0, USB 3.x SuperSpeed, USB4 and Thunderbolt** — one filter across all of them
- **USB-C PD 3.1 power delivery to 240 W** (48 V, 5 A), independent of data speed
- **Excellent isolation: -100 dB DC to 1 GHz, -95 dB to 3 GHz, -85 dB to 6 GHz**
- **Roomy 3.25 × 6 × 8.5 inches** inside (90 × 150 × 215 mm) and **light at 5 lb** — grab it and go bench to bench
- **Two SMA female bulkheads** with tethered dust caps for antennas or instrumentation
- **Adjustable latch** ensures tight RF shielding · optional **MW upgrade** to 28 GHz

DESCRIPTION

The pre-configured 0709 chambers give you the performance of the larger JRE enclosures at an entry-level price, by offering the configurations customers ask for most and building them in quantity. The JRE 0709-USB-C is the one for devices on USB-C, from phones and tablets to Thunderbolt peripherals: it arrives wired, final-tested and ready for the bench, with no plate to specify and no wait.

The fitted JRE USB C-1 is not a low-pass filter. At USB-C data rates the signal sits in the same band as the interference, so the patented phasing design separates balanced differential data from common-mode RF instead of

attenuating both — about 80 dB of rejection from 50 MHz to over 6 GHz, with no low-pass filtering on the data conductors. Achievable data rate is set by total cable attenuation, not by the filter.

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.

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.

FITTED INTERFACE — JRE USB C-1

Standard	USB 2.0 / 3.x / USB4 / TB
Filtering	Patented phasing
Conducted attenuation	~80 dB
Power delivery	PD 3.1, 240 W
Interface	Type C female, both sides

Full specifications on the JRE USB C-1 datasheet.

DIMENSIONS & WEIGHTS

Inside	3.25" H × 6" W × 8.5" D
	90 × 150 × 215 mm
Outside	4.5" H × 7.25" W × 9.75" D
	115 × 185 × 250 mm
Weight	5 lb / 2.3 kg
Shipping weight	6 lb / 2.7 kg

I/O PLATE & CONNECTORS

Plate size	JRE "A" size, factory-populated
Filtered interface	JRE USB C-1
RF feedthroughs	Two SMA female bulkheads
Connector covers	Dust caps, tethered
Additional or different interfaces can be fitted — contact the factory.	

FEATURES & BENEFITS

- Double-contact door shields ensure repeatable measurements
- Heavy-duty stainless steel friction hinge holds the lid steady
- 1/2" (13 mm) RF absorbing foam; 90 °C rating, UL 94V-0 flammability
- Two SMA female bulkhead feedthroughs with tethered dust caps

CONFIGURING YOUR CHAMBER

Need a different mix of interfaces? The JRE 0709-P is the same chamber with an empty, field-changeable A-size plate, ready for any combination from JRE's line of filtered interfaces — USB, Ethernet, power, HDMI and more. Use the Configuration Worksheet at jretest.com to organize your requirements.