

JRE 0709-LAN10G

Pre-Configured RF Shielded Test Enclosure

Our compact 0709 chamber with a 10GBASE-T Ethernet filtered interface already fitted and tested — ready to ship, and ready to test the day it lands.



Ships with the 10GBASE-T Ethernet interface installed

AT A GLANCE

- **Ready to test out of the box** — the JRE LAN-10G-1 filtered interface and two SMA feedthroughs are installed, wired and final-tested at the factory
- Built for **10GBASE-T over copper RJ-45**, plus the **2.5G and 5GBASE-T** rates
- **Not a low-pass filter** — a patented signal-phasing topology gives **~80 dB** rejection from 50 MHz to over 6 GHz without throttling the data
- 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-LAN10G is the one for devices on a 10 gigabit copper Ethernet link: it arrives wired, final-tested and ready for the bench, with no plate to specify and no wait.

The fitted JRE LAN-10G-1 uses the patented phasing design rather than low-pass filtering. At 10GBASE-T rates the data has climbed into the same band as the interference, so a low-pass would attenuate both; the phasing topology separates balanced differential data from common-mode RF

instead. Note it is built for 10GBASE-T on copper and is not compatible with 10GBASE-R, SFP+ or fibre 10G.

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 LAN-10G-1

Speeds	10GBASE-T, 5G, 2.5GBASE-T
Filtering	Patented phasing
Conducted attenuation	~80 dB
Frequency range	50 MHz – 6 GHz+
PoE pass-through	Compatible

Not compatible with 10GBASE-R / SFP+ / fibre 10G. Full specifications on the JRE LAN-10G-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 LAN-10G-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.