

# RF Test Chamber

## Isolated RF Test Chamber with Modular Electrical Interface

### Maximum Ratings

Operating	-45°C to 50°C
Storage Temperature	-55°C to 85°C

Permanent damage may occur if the limits are exceeded.

### Connections

RF Isolated Door	1
4 Power Jack	2
4 SMA	3,4,5,6
Ethernet	7
Ventilation	8,9

### Dimensions

320 x 320 x 339.6 mm

### Modular I/O plate Size

115 x 180mm

### Isolation From 1 Meter Distance

-95dB @ 1GHz  
 -90dB @ 2.45 GHz  
 -80dB @ 6GHz

### Extra Interface Options

**RF Feedthru:** BNC, TNC, SMA, SMB, UHF, Type-N, reverse SMA, F Type

**High Performance RF Filtered Interfaces:** USB2-1, USB2-2, LAN-1 Ethernet

**Fiber optic:** Fiber optic bulkhead feed thru: Type ST, FC.

**Connector covers:** Dust cover caps with tether chains included for all RF connectors

**RF filtered data connectors:** DB9, DB15, DB25, DB37, DB50, RJ11, RJ45, USB (Choice of 100 or 1000 pf filtering on data lines)

**Power connection:** 4 or 6 terminal barrier strip, 2500 pf filtering. 120/240 VAC power strip

**Cover interlock switch:** Safety switch contact

**Ventilation Fan:** For Cooling Systems

### Features

- Rugged welded aluminum construction
- Wide selection of I/O options with I/O plate
- Compact sized
- Excellent RF Isolation
- Ventilated
- Convenient side open door with secure latch
- Double contact door shields
- Integrated RF absorbing foam
- Heavy duty stainless steel hinge
- Modular Hexagon Shape

### Applications

- Laboratory Instrumentation
- Production Test
- R&D
- Test Setup
- Shielding Tests



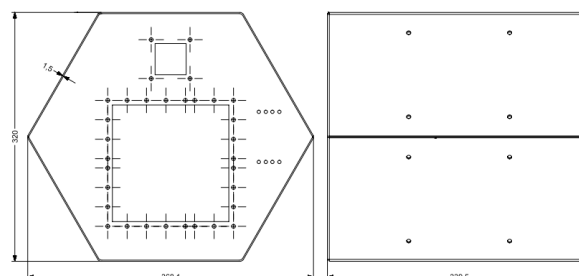
### Electrical Specifications Typical Performance Data

Parameter	Frequency range (MHz)	Typ.	Units
Isolation from 1 meter	1000	-95	dB
Isolation from 1 meter	2450	-90	dB
Isolation from 1 meter	6000	-80	dB
4 Terminal DC barrier strip	DC	2500	pF
SMA Connector	DC - 12000	50	Ω
Ethernet Connector Loss	DC - 500 MHz	3	dB
Ethernet Connector Loss	>700 MHz	70	dB

RF Test Chamber is an electromagnetic shielded box to reduce the electromagnetic field in a chamber by blocking the field with barriers made of conductive materials to isolate the DUT from the outer unwanted signals. Also RF test chamber uses special connectors to filter the cables so that unwanted signals from the outer world does not couple into the RF test chamber through the Ethernet, DC and RF cables.

Hexagon RF Test Chamber is modular and can be mounted on top of each other

### Dimensions



### Modular Integration

