

## TSB 504020 Shielded Box for mobile phone qualification tests

The T-Network's absorber lined stainless steel test box is suitable for qualification tests of mobile phones and notebooks which comprise 880-2500MHz transceivers.

Three mobile phones or any usual size notebook placed into the test box can communicate only via two built in antennas connected to the coaxial connector assembled on the box's front side and right side. Watching mobile phones' display as well as handling their keyboard is possible thru the novel lattice window on the box cover. When notebook is tested this lattice, the bottom honeycomb vent and the fiber structure absorber lining under the notebook ensure free air flow. Forced cooling can be achieved putting the enclosed ventilator assembly over the upper lattice. Sufficient isolation from the environmental RF signals is the result of the solutions as follows:

- filtering of all wires led into the interior of the test box,
- double row of finger springs in the gap between the box and its cover,
- 50mm long lattice window (rectangular waveguide array under 8GHz cut-off frequency)
- 25mm thick honeycomb vent at the bottom.





## Technical specification

Frequency band of tests Outer box dimensions Internal dimensions Built in 2 antennas Antenna connectors RL at N connectors Isolation (typical) 3 x USB(2.0) ports LAN(100BaseT) port 12VDC input Inner 3x12VDC Ventilator assembly

500x400x200 [mm] 450x350x100 [mm] isotropic 2 x N female 50Ω 6dB min. 60dB USB A socket Shielded RJ45 socket Ø4mm banana socket car cigar lighter sockets 12VDC 2.6W 72m³/h

880÷2500MHz

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