

Appendix No. 1
to the Request for Proposal

Case number: 2/CBR/2024

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Detailed Description of the Subject of the Order

Concerning the purchase of a 4-port isolator for the L band.

The order is being executed as part of the project "Autonomous Distributed System for Countering Unmanned Aerial Vehicles on a Universal Transport Platform," conducted under the program "Development of Modern, Breakthrough Technologies for National Security and Defense" – Competition No. 4/SZAFIR/2021.

The subject of the order is: a four-port isolator in the form of a four-port circulator for the L band, along with two high-power loads.

Detailed Specifications of Device Requirements:

- Operating Frequency: 1300 MHz
- Bandwidth: ± 5 MHz
- Waveguide Standard: CPR650 (WR650) for all ports
- Maximum Peak Power: 10 MW peak
- Maximum Average Power: 20 kW average
- Maximum Reflected Power: 1 MW peak
- Pulse Repetition Rate: 400 Hz
- Pulse Duration: $< 5 \mu\text{s}$
- Cooling Type: Water or Air
- Option for Insulating Gas Filling: N₂ or SF₆
- Electric Arc and Internal Discharge Detection System.