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To whom it may concern,

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Notice on Consignment of Design/Manufacturing of Terahertz Band Frequency Converter Unit in the Beyond 5G/6G Industry-university Joint Research

Please be informed that our subsidiary, Tamagawa Electronics, Co., Ltd. (hereafter “Tamagawa Electronics”) has been engaged in the technical development, facility investment and order receipt enhancement of milli-wave band and terahertz band by foreseeing an increase of attention to Beyond 5G/6G as the next generation communication format of the fifth-generation mobile communication system (5G) which has been started commercially in a full scale. As a result of the above, we have been consigned with design and manufacturing of the terahertz band frequency converter units for wireless devices used for the Beyond 5G/6G industry-university joint research promoted by our government.

1. Overview

For the Beyond 5G/6G which is aimed for launching of commercial use in the 2030s, it is considered to use terahertz band (300GHz~3THz) which is the frequency band between electric wave and optics in order to achieve ultrafast speed large volume wireless communication, and such research and development have been actively promoted worldwide. In the “research and development of densification and distance expansion of terahertz band communication” conducted by Waseda University as the representative, wireless devices of 100GHz band and 300GHz band will be required for the terahertz wireless communication technology research. Tamagawa Electronics has been requested to design and manufacture 100GHz band and 300GHz frequency converter units which will be the core of analog circuit in such wireless devices and deliver the same to Waseda University.

2. Our future approach

We will aim for our further business expansion and contribute to development of the wireless communication field by further enhancing compatibility of the milli-wave band and terahertz band which are difficult to design and manufacture, and will proceed with participation in the product development and research and development projects.