

SR4T014 – TransferJet Coupler

Product name: Zoma

TransferJet Coupler

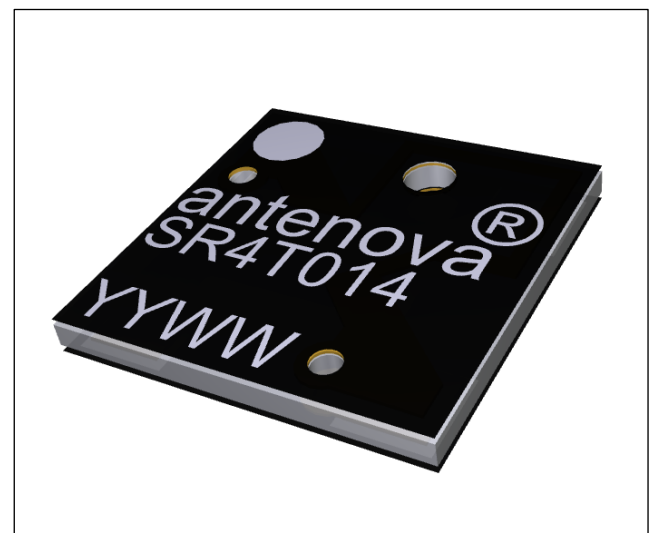
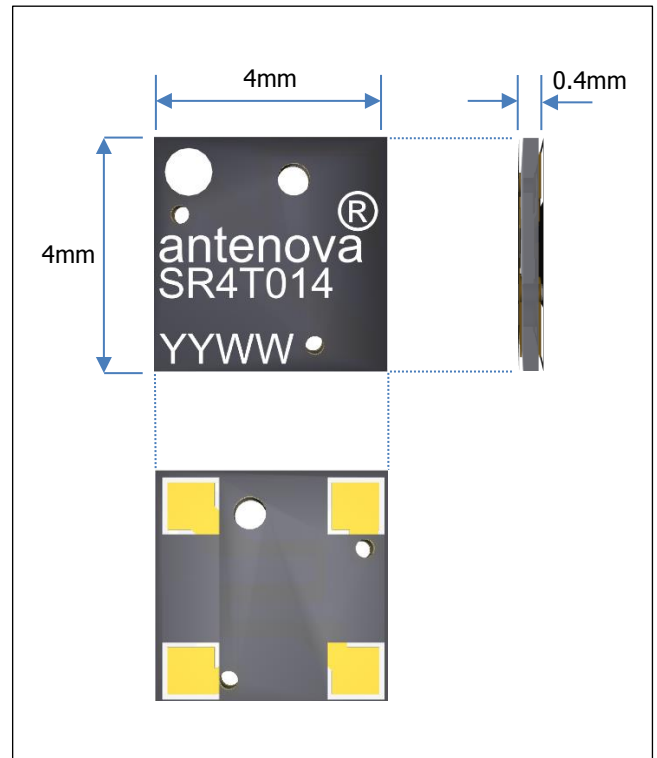
TransferJet, the close proximity wireless transfer technology is designed to transfer large files such as photos and videos from mobile devices simply by holding the devices together. Unlike NFC TransferJet can handle extremely high data rates up to 375Mbits/s.

For these high data transfers an RF coupler is required. Antennovas SR4T014 is a small easy to integrate solution designed for this purpose.

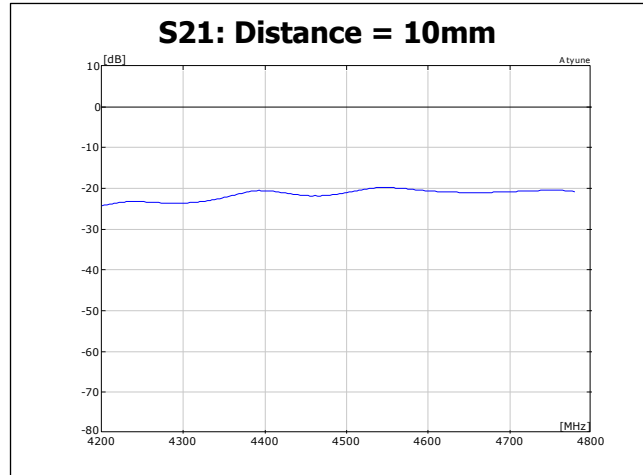
SR4T014 is an RF coupler and not an antenna, this means that the data transfer can only be carried out if the devices are in close proximity. The RF coupler does not use the radiated electromagnetic field but instead utilises the electric inductive field. The frequency band is at the 4.48GHz band. The coupler shows high gain at close distances.

Features

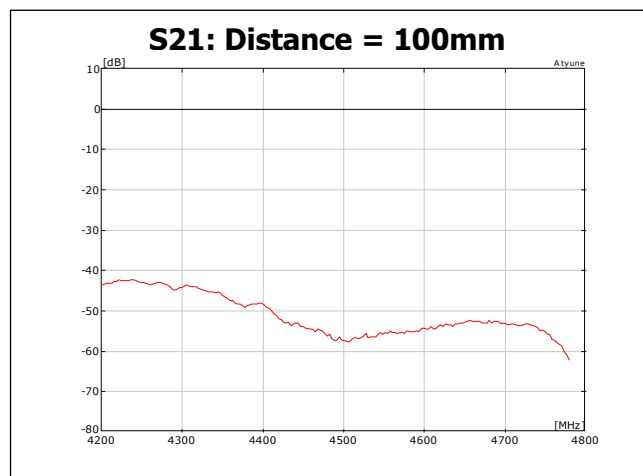
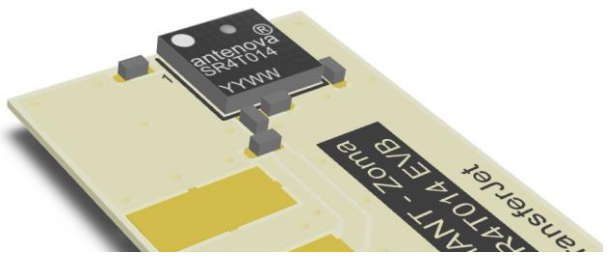
- SMD type
- Easy to integrate for any size PCB
- Compact design



The TransferJet coupler function is shown here on a S21 measurement between two Antenova SR4T014 evaluation PCBs. The 10mm test shows how the couplers allow for inductive coupling. The lower 100mm distance shows that no transfer can take place with a S21 of < -40 dB.



SR4T014 – Evaluation board (15 x 20 mm)



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Antennas for Wireless M2M Applications