ANTENNA COUPLER · DATASHEET

WiFi Antenna Coupler

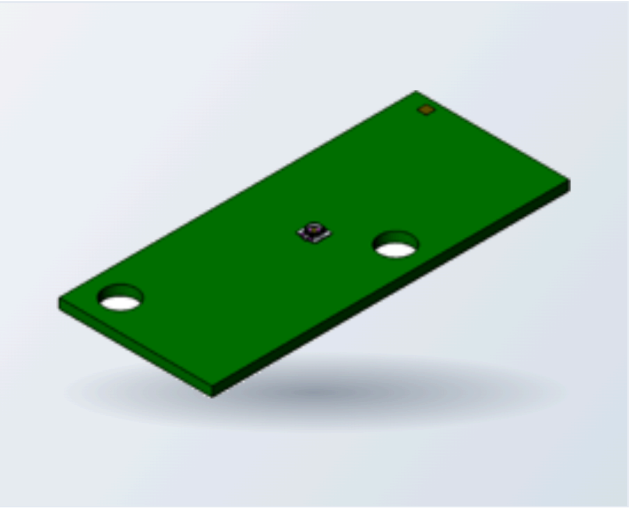
MB001505 | 2.4 / 5 GHz | 50 Ω · JSC

BLUELEC
Part of JOT Automation

Bluelec MB001505 is a dualband antenna coupler for near-field testing of WLAN and Bluetooth antennas at 2.4 GHz and 5 GHz. It provides repeatable coupling across both bands from a single compact coupler.

- Covers WLAN and Bluetooth bands (2.4 – 2.5 GHz and 5.2 – 5.8 GHz).
- Great near-field coupling across both frequency ranges.
- Board-mount JSC connector for compact, dense fixtures.
- Nominally linear coupling field with broad angular near-field response.

Fitted with a board-mount JSC RF interface and 50 Ω termination, the coupler integrates easily into automated handlers and high-density test fixtures where space is limited.



ELECTRICAL

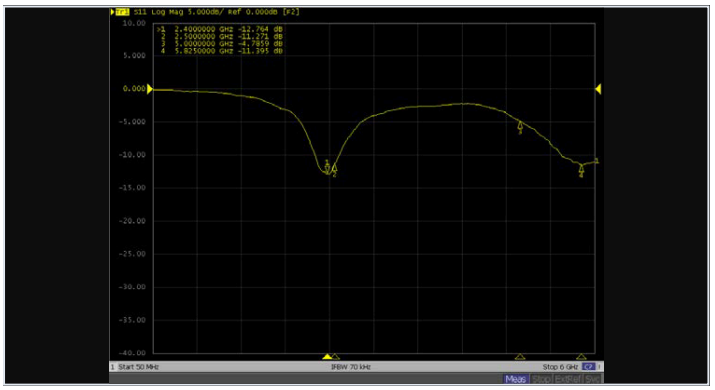
Frequency range 1	**2.4 – 2.5 GHz**
Frequency range 2	**5.2 – 5.8 GHz**
Terminal impedance	**50 Ω**
Nominal polarization	**Linear**
Near-field coupling	**Broad angular response**

MECHANICAL

RF connector	**JSC**
Coupling	**Near-field**
Compliance	**RoHS**

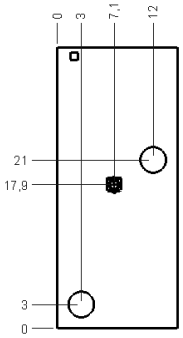
COUPLING RESPONSE

reference, no DUT



DIMENSIONS

mm



ENVIRONMENTAL

Operating temperature	**0 – +60 °C**
Relative humidity	**15 – 95 % non-condensing**
Storage temperature	**−20 … +70 °C**

3D CAD models available on request via **sales@bluelec.com**

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