ANTENNA COUPLER · DATASHEET

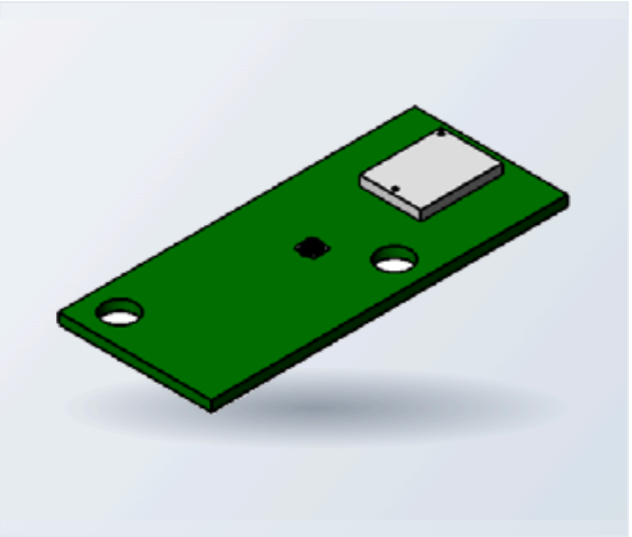
# LTE Band Coupler

**MB001671** | 3.1 – 8 GHz | 50 Ω · JSC

**Bluelec MB001671** is a wideband antenna coupler for near-field testing of mobile-device antennas across 3.1 GHz to 8 GHz. It provides repeatable coupling across LTE upper bands (Band 42/43), WLAN, WiMAX, and UWB frequencies, from a single compact coupler.

- Covers LTE upper bands (Band 42/43) plus WLAN, WiMAX, and UWB frequencies.
- Good near-field coupling across the full 3.1 – 8 GHz range.
- 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

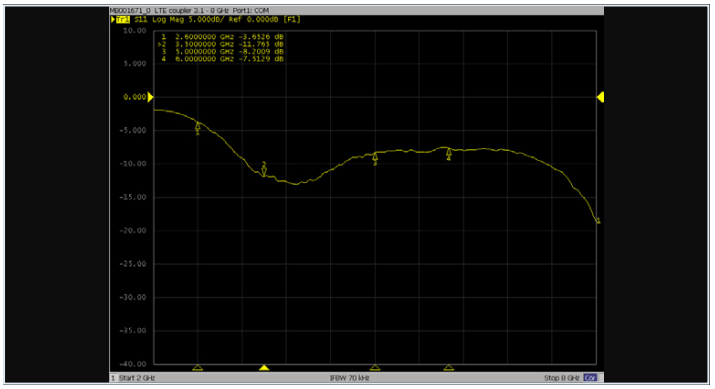
| | |
|---|---|
| Frequency range | **3.1 – 8 GHz** |
| Terminal impedance | **50 Ω** |
| Nominal polarization | **Linear** |
| Near-field coupling | **Broad angular response** |

## MECHANICAL

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

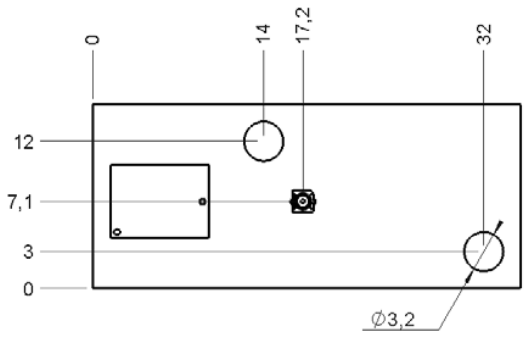
## COUPLING RESPONSE

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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