ANTENNA COUPLER · DATASHEET

Wideband Antenna Coupler

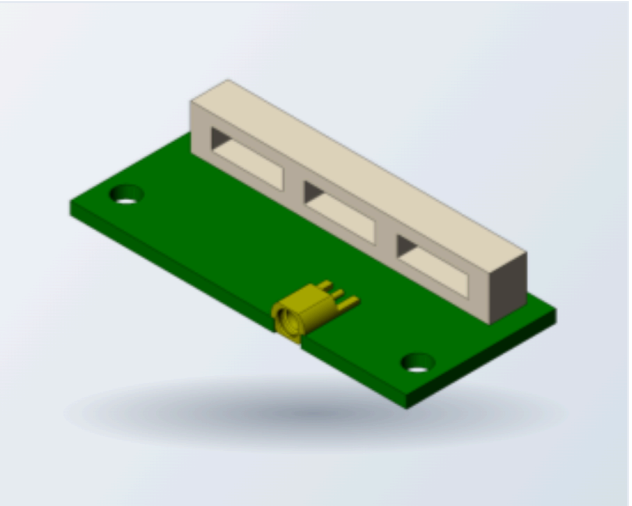
BLUELEC
Part of JOT Automation

MB001728 | 698 – 2700 MHz | 50 Ω · MMCX

Bluelec MB001728 is a wideband antenna coupler for near-field testing of mobile-device antennas across 698 MHz to 2700 MHz. It provides repeatable coupling over all cellular 2G/3G/4G bands and complementary BT/WLAN/GPS bands from a single compact coupler.

- Covers cellular 2G/3G/4G plus complementary BT/WLAN/GPS bands.
- Excellent near-field coupling across the full 698 – 2700 MHz range.
- Snap-on MMCX connector for quick, tool-free cabling.
- Nominally linear coupling field with broad angular near-field response.

Fitted with a snap-on MMCX RF connector and 50 Ω termination, the coupler integrates easily into automated handlers and cabled test fixtures for fast, tool-free connection.



ELECTRICAL

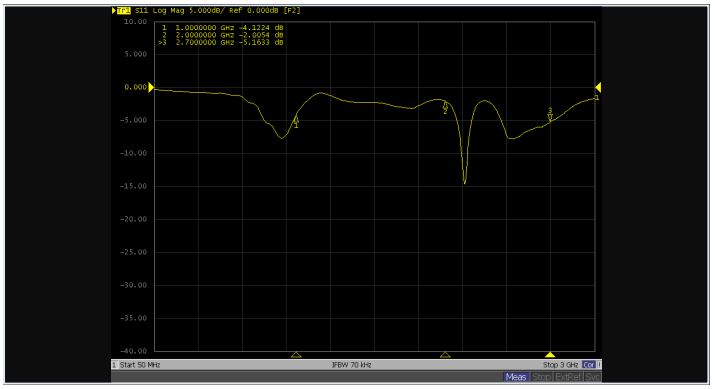
Frequency range	**698 – 2700 MHz**
Terminal impedance	**50 Ω**
Nominal polarization	**Linear**
Near-field coupling	**Broad angular response**

MECHANICAL

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

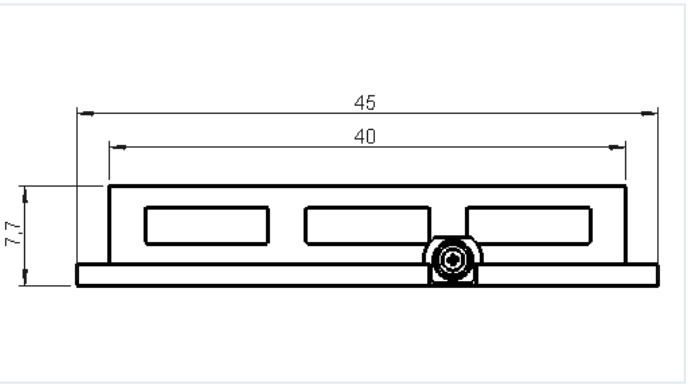
COUPLING RESPONSE

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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Specifications subject to change without notice.