ANTENNA COUPLER · DATASHEET

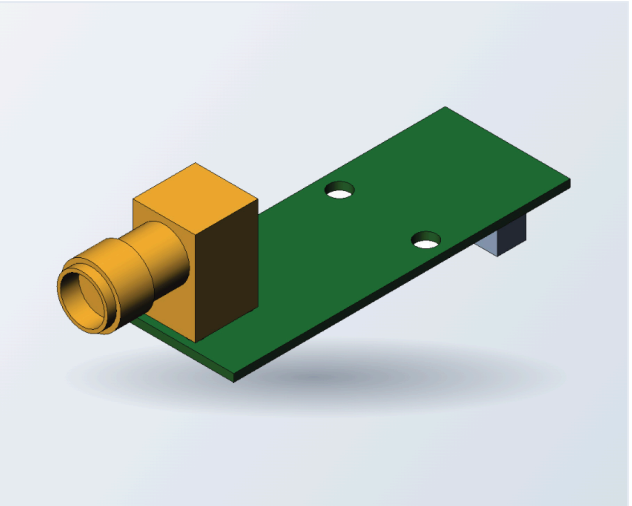
GPS Antenna Coupler

MA009889 | 1575.42 MHz | 50 Ω · SMA (f)

Bluelec MA009889 is a GPS antenna coupler for near-field testing of the GPS antenna in mobile devices at the GPS L1 frequency of 1575.42 MHz. It delivers repeatable coupling from a compact single-port coupler.

- Tuned for the GPS L1 frequency (1575.42 MHz).
- Near-field coupling optimized for GPS L1 antenna verification.
- Suitable for GPS L1 / GNSS L1-related test applications.

With its small footprint and 50 Ω SMA interface, the coupler integrates easily into automated handlers, R&D benches, and service-center fixtures for fast, consistent GPS antenna verification.



ELECTRICAL

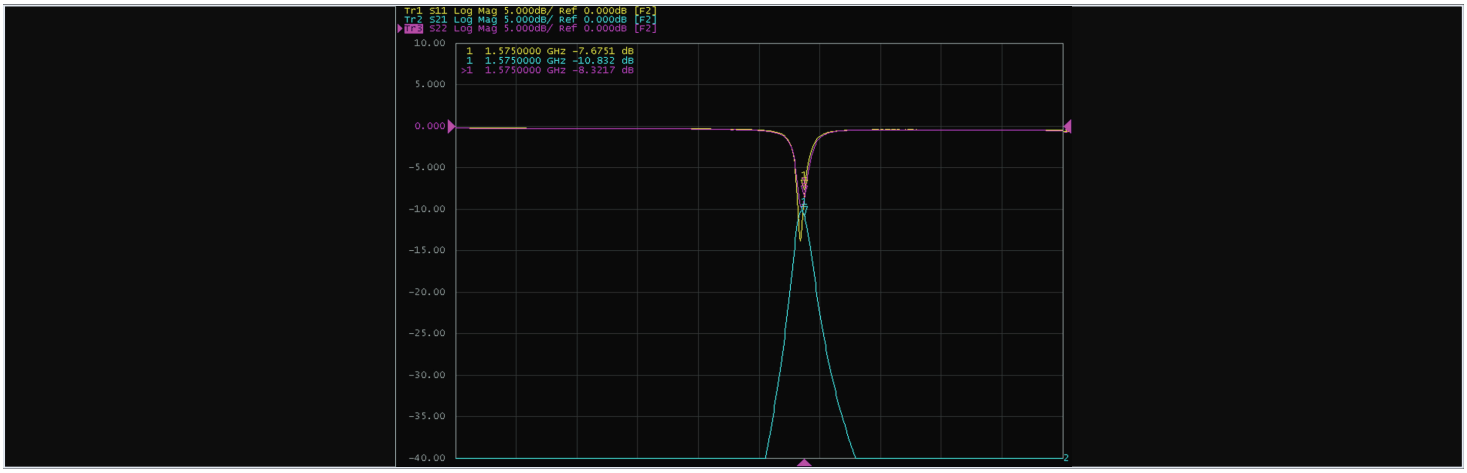
Frequency	**1575.42 MHz**
Terminal impedance	**50 Ω**
Near-field coupling	**Optimized for GPS L1**

MECHANICAL

Dimensions	**42.75 × 13 × 14.55 mm (1.68 × 0.51 × 0.57 in)**
RF connector	**SMA (female)**
Mounting	**M2 plastic screws**
Compliance	**RoHS**

COUPLING RESPONSE

reference, no DUT · two identical couplers at 5 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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Datasheet Rev. A2 · November 2026
Specifications subject to change without notice.