

Description:

MCV's tailored solution kit for RF Maintenance Engineers is designed to provide a comprehensive, portable, and versatile set of tools to be used with a spectrum monitor (not supplied by MCV) for detecting and analyzing interference in 5G networks, specifically, C-Band, CBRS, DoD, ESR and FAA bands. Other frequency bands can be included upon request.



Features:

- **Kit Packaging:** Each kit is housed in a Pelican case or equivalent, renowned for their robustness and security. Custom fittings ensure that all individual components are held securely.
- **Versatile Compatibility and Broad Frequency Range:** Designed to be agnostic to test equipment, the components of this kit can interface with various spectrum analyzers or monitoring systems across a wide frequency range. The LNA covers 700-7500 MHz, and the antenna spans 1000-8000 MHz, ensuring broad applicability. This versatility allows the kit to be used across additional bands where no filters are required, or where alternative filters can be added upon request.
- **Filter:** Provides over 55 dB of rejection at band edges, effectively isolating desired signals from adjacent channel interference.
- **Low Noise Amplifier (LNA):** Boosts signal strength significantly with a 30 dB gain, enhancing weak signals. Its low noise figure and high OIP3 ensure clear and undistorted signal detection. The unit is battery-powered for convenient field use.
- **Antenna:** Features a high gain (10 dB) and excellent front-to-back ratio (minimum 20 dB), ensuring focused signal capture and reduced interference. Equipped with an ergonomic handle, it is easy to maneuver and position for optimal signal detection.

Benefits:

- **Comprehensive Solution:** By combining filters, LNAs, and antennas in a single kit, RF Maintenance Engineers are equipped with all necessary tools to detect, analyze, and mitigate interference effectively.
- **Ease of Use:** The agnostic nature of the kit components allows seamless integration with existing testing apparatus, making the kit a versatile addition to any RF Maintenance Engineer's toolkit.

Included in the Kit:

Part number	Qty	Description
BCC5-ALB-A1-L	1	LNA Module
BCC5-ALB-A1-A	1	Antenna Module
BCC3500-100A1	1	DoD Filter
BCC3625-150A1	1	CBRS Filter
BCC3840-280A1	1	C-Band Filter
BCC4100-100A1	1	ESR Filter
BCC4300-100A1	1	FAA Filter

Block Diagram:

