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MobileMark antenna solutions

LMW203, Low Profile LTE-U with GPS

Low Profile LTE-U, with GPS 695-960/1710-6000 MHz

- Multiband antenna for Cellular LTE-U and GPS
- Can be used for Mobile LTE-U applications
- For optimal performance, a ground plane is recommended

This two-cable antenna combines two applications at a time: GPS on one cable and any one of several wireless data applications on the other cable.

The LMW Series stands out from the other Mobile Mark Surface Mount Antenna Series in that it is extremely broadbanded and covers LTE-U cellular bands from 695-960 MHz and 1710-6000 MHz. It has excellent performance characteristics and performs well across the entire band.

This new wideband Surface Mount Antenna offers greater flexibility for stocking and installation because it can function over multiple systems.

For GPS, the performance is 26 dB amplifier gain with 5 dBi RHCP nominal antenna gain. The antennas have low noise figure with excellent filter characteristics.

This rugged antenna can be mounted with complete confidence in a wide range of settings. It can be mounted to any vehicle, container or bulkhead with a threaded stud mount. For optimal performance, a groundplane is recommended.

Model Configurator

LMW-203 - □□ □□ - □□□ - □□□

Cable/Connector 1
Cable/Connector 2
Color
Cable Length in Inches (eg. 12 or 180)

Example: LMW-203-3C2C-WHT-180

Cable Options:		Connector Options:		Color Options:	
Code	Cable	Code	Connector	Code	Color
1	RG-58	A	TNC	WHT	White
2	RG-174	B	Mini UHF	BLK	Black
3	RF-195	C	SMA		

(Other Configurations available.)

Specifications

Frequency:	
Cable 1, LTE-U	695-960/1710-6000 MHz
Cable 2, GPS	1575.42 +/- 2 MHz
Data Side:	
Gain (695-960 MHz)	Unity
Gain (1710-6000 MHz)	3-5 dBi
VSWR:	<2.5:1 max over range
Nominal Impedance:	50 Ohm
Power:	10 Watts
Operating Temp:	-40° to +80° C
GPS Side:	
Amplifier gain	26 dB, LNA
Antenna gain	5 dBi nominal RHCP, Antenna
Noise Figure	2.0 dB max, 1.7 dB typical
Amplifier Bias	2.7 to 5 VDC
Amplifier Current	20 mA max, 10 mA typical

Standard Cables:	
Cable 1	LL-195 15 ft (4.5 m)
Cable 2 (GPS)	RG-174, 15 ft (4.5 m)
Optional Cables:	
Cable 1	RG-58, 15 ft (4.5 m)
Connectors:	SMA Plug (Male) standard
Case:	3.5"D x 1.5"H (8.9 cm x 3.8 cm)
Case Material:	UV resistant ASA
Mounting:	5/8" dia.x 3/4" long (1.6 cm x 1.9 cm) Up to 1/2" (1.27 cm) thick metal
Hardware:	Nut and gasket included
Water Ingress:	IP67
Shock & Vibration:	EN 61373, IEEE 1478,MIL-810G

Specifications subject to change without notice (9/2018)