



## L000573-07 & L000574-07

### Multi-Port 800 MHz, Wi-Fi 6E/7 & GNSS Vehicular Antennas

L000573-07 & L000574-07 antennas offer a compact and high performance antenna solution for vehicular applications.

Designed as an all-in-one solution for the MXM600 radio, L000573-07 and L000574-07 antennas support 800 MHz band, Wi-Fi 6E/7 and GNSS from a single antenna.

### FEATURES AND BENEFITS

- Permanent and magnetic mount variants available
- Compact multi-port vehicular antenna
- 800 MHz band, Wi-Fi 6E/7 and GNSS in a single antenna
- Designed as an all-in-one solution for MXM600 radios

#### ELECTRICAL SPECIFICATION\* - PERMANENT MOUNT (L000573-07)

	Wi-Fi			800 MHz	GNSS
Operating Frequency (MHz)	2400 - 2500	4900 - 6000	6000 - 7125	806 - 870	1559 - 1607
VSWR	< 1.3:1	< 1.3:1	< 1.6:1	< 1.9:1	< 2.0:1
Gain, max (dBi)	6.7	8.6		4.1	36 (Active)
Efficiency, min (%)	67	62		69	-
Beamwidth, avg (°)	Az: 128 El 0: 40 El 90: 21	Az: 62 El 0: 47 El 90: 47		Az: 127 El 0: 46 El 90: 47	El 0: 38 El 90: 71

#### ELECTRICAL SPECIFICATION\* - MAGNETIC MOUNT (L000574-07)

	Wi-Fi			800 MHz	GNSS
Operating Frequency (MHz)	2400 - 2500	4900 - 6000	6000 - 7125	806 - 870	1559 - 1607
VSWR	< 1.4:1	< 1.3:1	< 1.6:1	< 1.8:1	< 2.0:1
Gain, max (dBi)	7.9	9.4		4.1	36 (Active)
Efficiency, min (%)	74	59		67	-
Beamwidth, avg (°)	Az: 35 El 0: 32 El 90: 21	Az: 45 El 0: 45 El 90: 38		Az: 192 El 0: 50 El 90: 69	El 0: 57 El 90: 73

#### COMMON SPECIFICATIONS\*

Input Power, max (W)	10	30	-
Port-to-port Isolation (dB)	GNSS – 800 MHz > 47 GNSS – Wi-Fi > 20		
Impedance (Ω)	50		
Azimuth Beamwidth	Omnidirectional		
Polarization	Linear Vertical		

\* All specifications based on typical measurement results; actual antenna performance may vary

## ELECTRICAL SPECIFICATION - GNSS\*

Frequency Range (MHz)	1559 - 1607	
LNA Gain (dB)	28 ± 3	
Noise Figure (dB)	≤ 2.5 @ 1575 MHz	
Output VSWR	≤ 2.0:1	
Polarization	RHCP	
Nominal Impedance (Ω)	50	
Operating Supply Voltage (Vdc)	2.5 - 7.0	
Current Consumption, max @ 3.0 V (mA)	8.5 ± 3	
Input Power, max (dBm)	+10	
Out-of-band Rejection (dBc)	698 – 960 MHz	> 80
	1428 – 1511 MHz	> 80
	1710 – 2700 MHz	> 80
	4900 – 5800 MHz	> 70
Cable Type	RG174	

\* Measured with 5m RG174 cable

## MECHANICAL SPECIFICATION

Dimensions, length x width x height (mm) [in.]	<b>Permanent Mount</b> 139.2 x 69.2 x 48.6 [5.48 x 2.72 x 1.91] <b>Magnet Mount</b> 138.2 x 68.3 x 45.6 [5.44 x 2.69 x 1.80]
Weight (kg) [lbs.]	<b>Permanent Mount</b> 0.72 [1.59] <b>Magnet Mount</b> 0.78 [1.72]
Radome Material	Polycarbonate (PC)
Flammability Rating	UL94-V0
IP Rating	IP67, IP69K
Mounting	Magnet / Permanent Stud
Wind Operational Test	Simulated 100 mph for 1 minute load
Wind Survival Test	Simulated 136 mph for 15 second load

## ENVIRONMENTAL SPECIFICATION

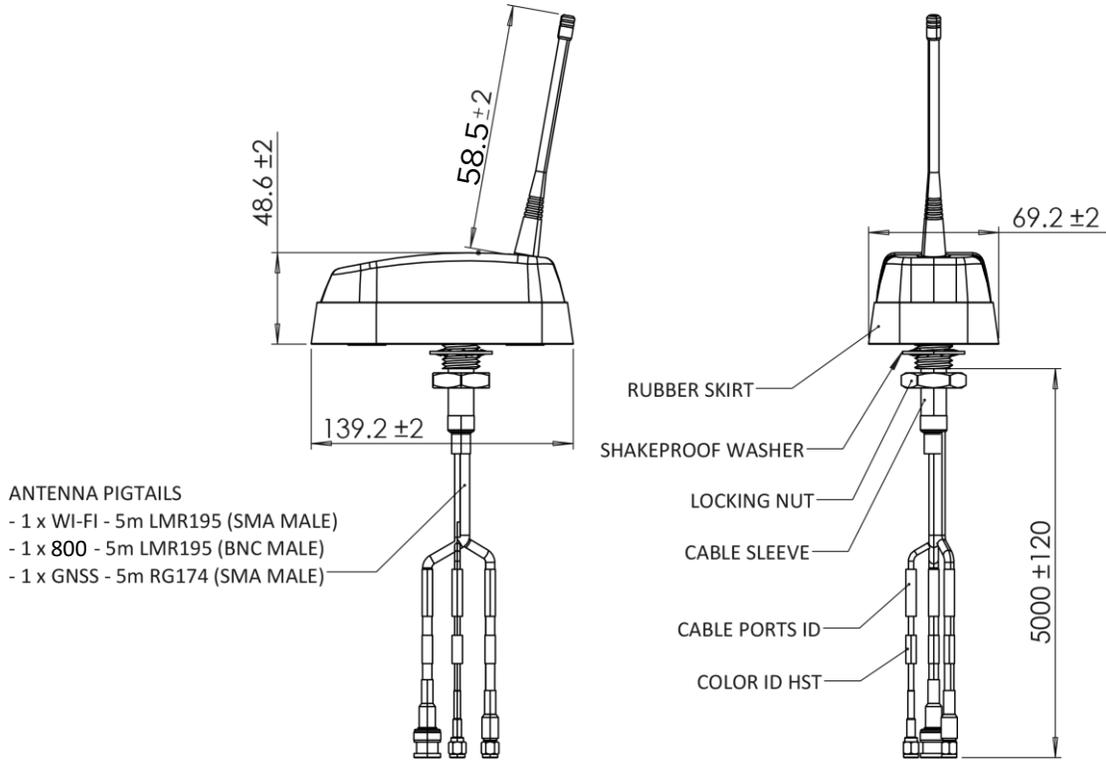
Operating Temperature (°C) [°F]	-30 to +70 [-22 to +158]
Storage Temperature (°C) [°F]	-40 to +85 [-40 to +185]
Material Substance Compliance	RoHS UKCA & CE Compliant

## CONFIGURATION

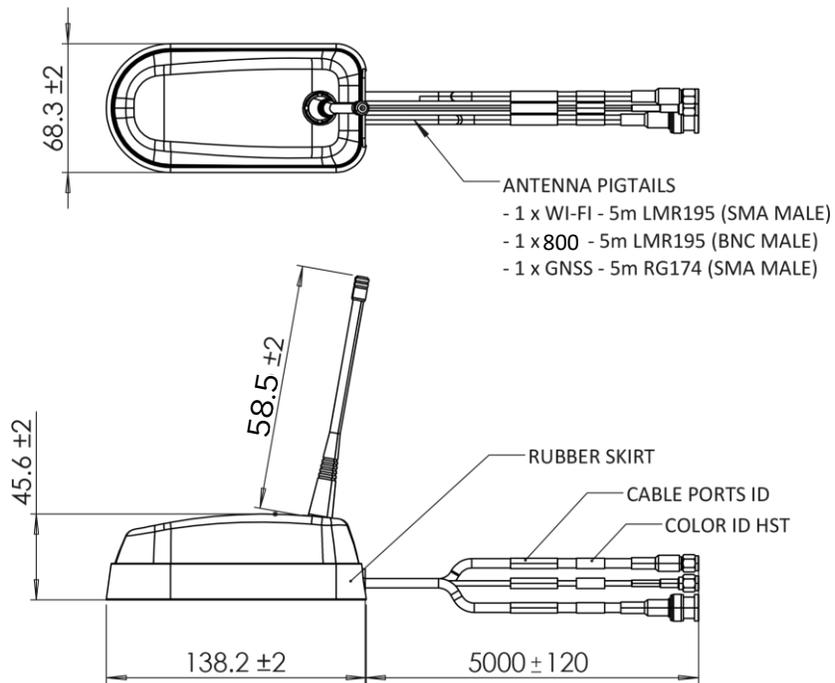
PART NUMBER	MOUNTING TYPE	CABLE TYPE & LENGTH	CONNECTOR
L000573-07	Permanent/Stud	Wi-Fi - LMR195-type - 5m / 16ft 800 MHz - LMR195-type - 5m / 16ft GNSS - RG174 - 5m / 16ft	Wi-Fi - SMA Male (IP67-Rated) 800 MHz - BNC Male (IP67-Rated) GNSS - SMA Male (IP67-Rated)
L000574-07	Magnetic	Wi-Fi - LMR195-type - 5m / 16ft 800 MHz - LMR195-type - 5m / 16ft GNSS - RG174 - 5m / 16ft	Wi-Fi - SMA Male (IP67-Rated) 800 MHz - BNC Male (IP67-Rated) GNSS - SMA Male (IP67-Rated)

**MECHANICAL DRAWINGS**

**PERMANENT MOUNT**

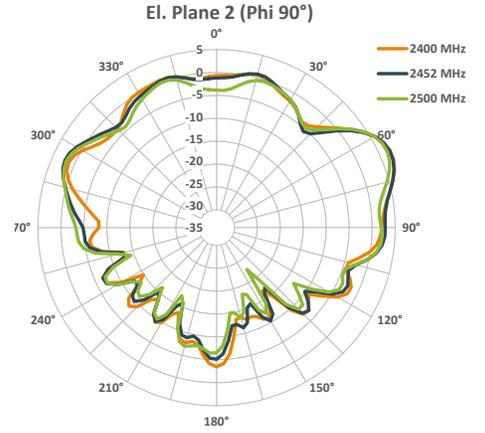
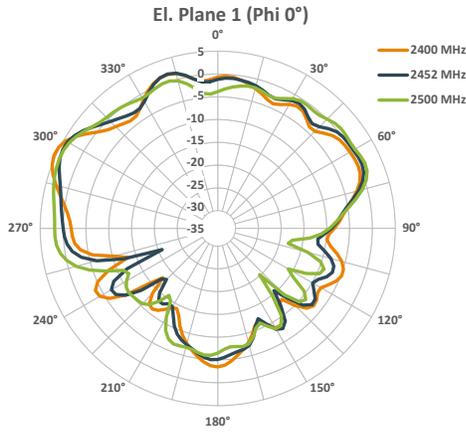
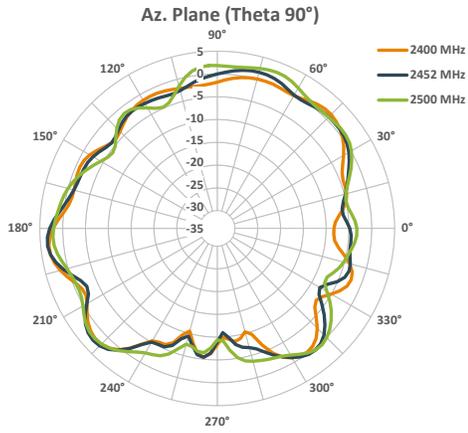


**MAGNETIC MOUNT**

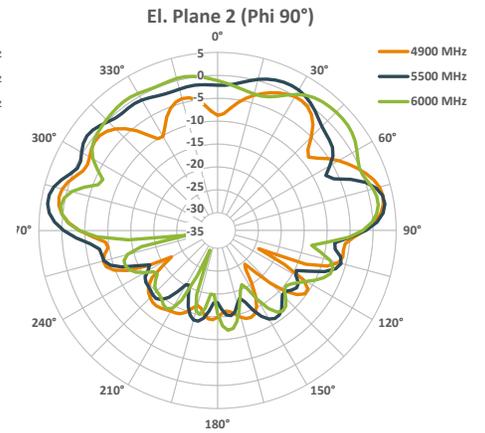
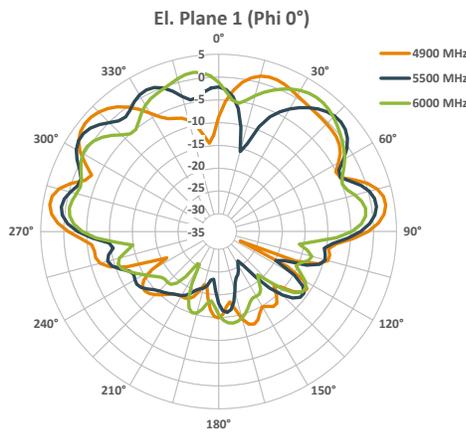
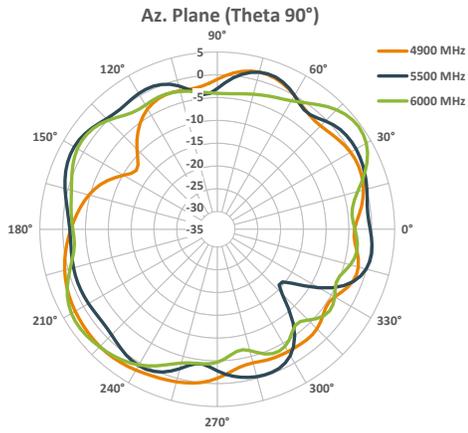


# RADIATION PATTERNS - MAGNETIC MOUNT - WI-FI

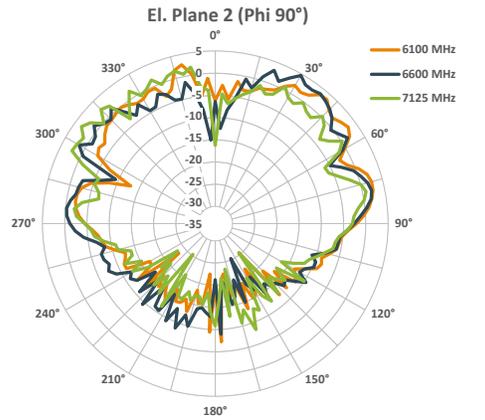
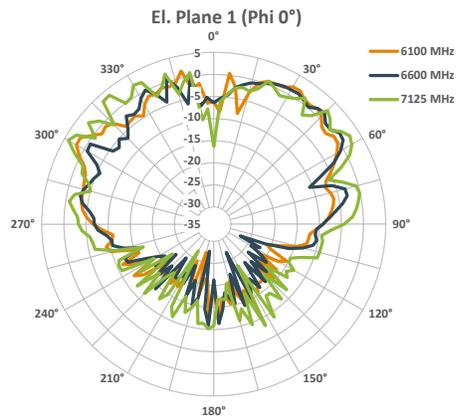
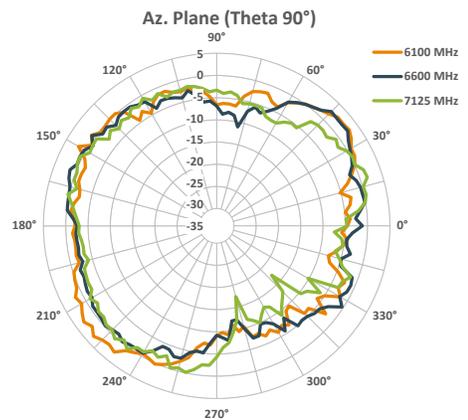
## 2400 - 2500 MHz



## 4900 - 6000 MHz

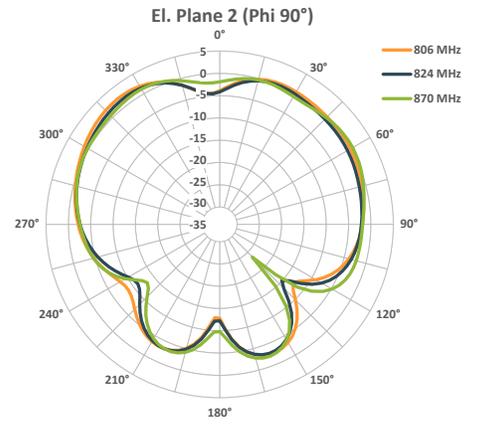
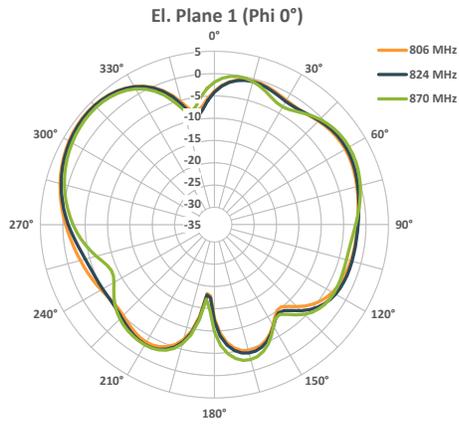
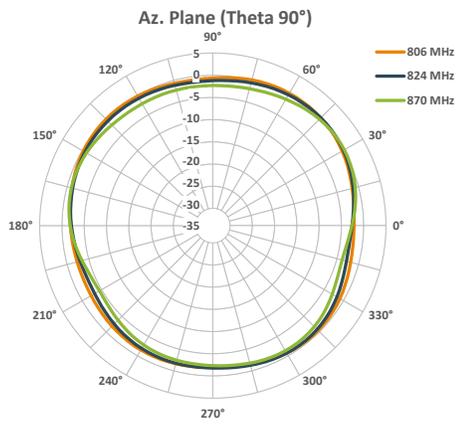


## 6000 - 7125 MHz



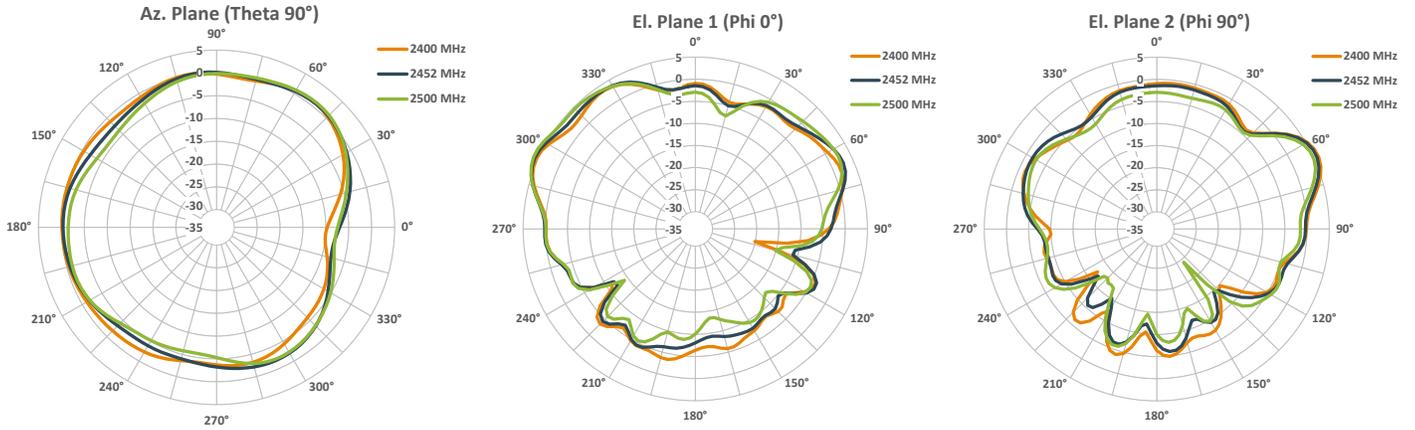
## RADIATION PATTERNS - MAGNETIC MOUNT – 800 MHZ

### 806 - 870 MHz

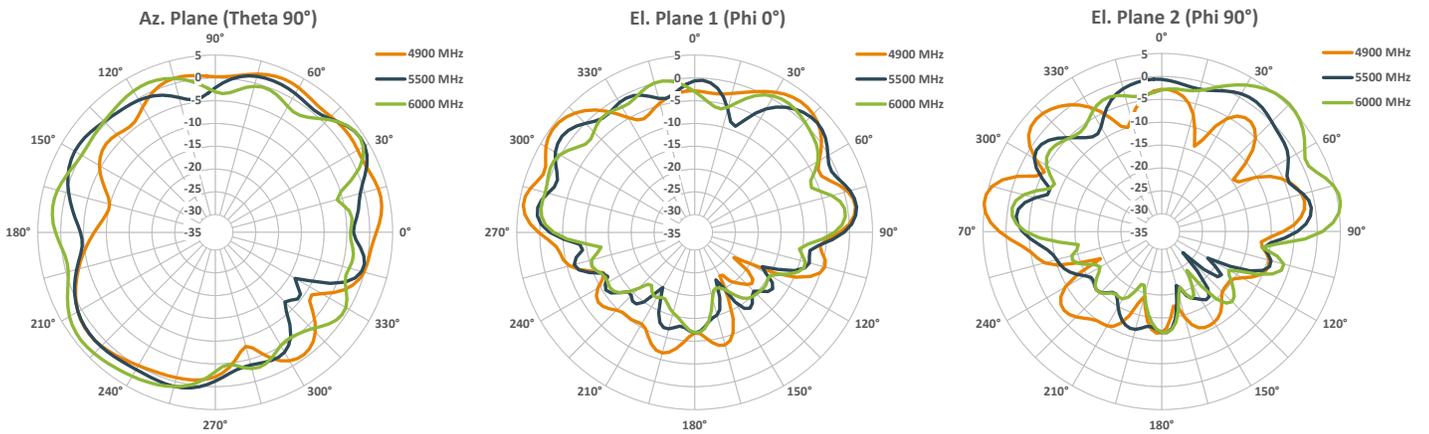


# RADIATION PATTERNS - PERMANENT MOUNT - WI-FI

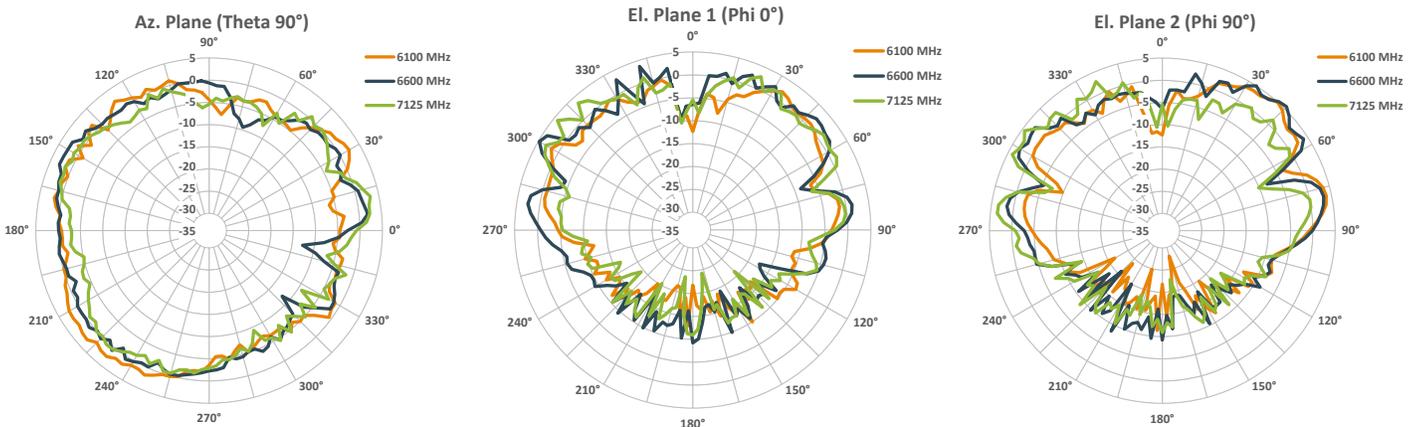
## 2400 - 2500 MHz



## 4900 - 6000 MHz

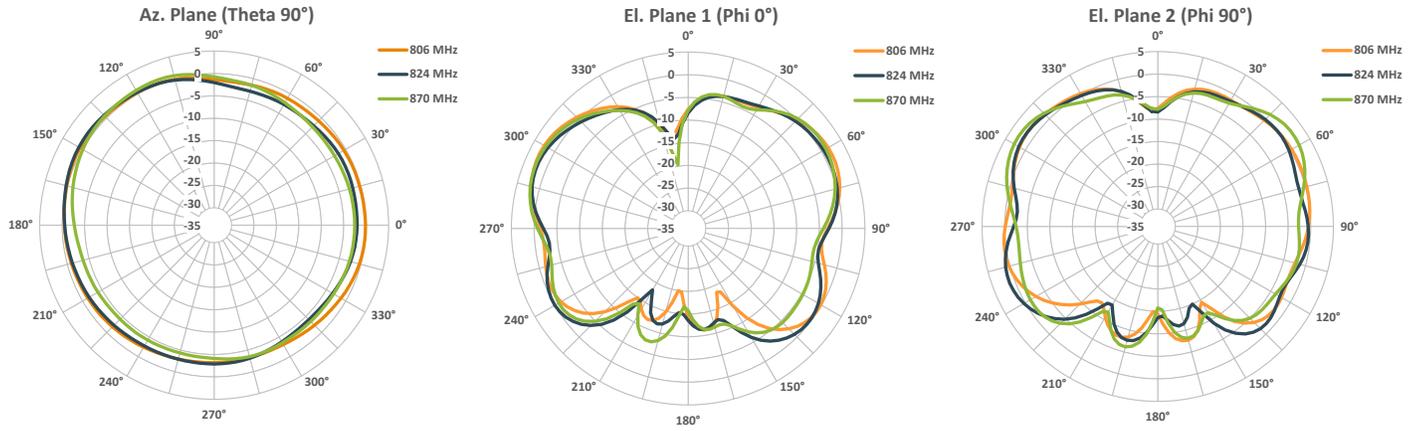


## 6000 - 7125 MHz



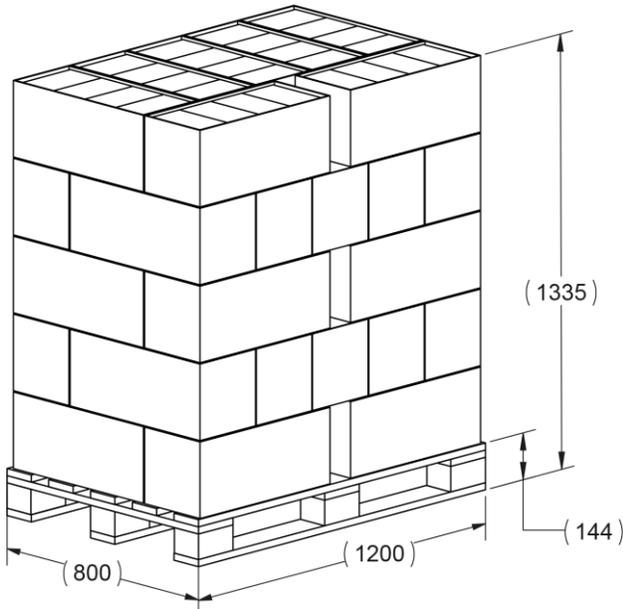
# RADIATION PATTERNS - PERMANENT MOUNT – 800 MHZ

## 806 - 870 MHz

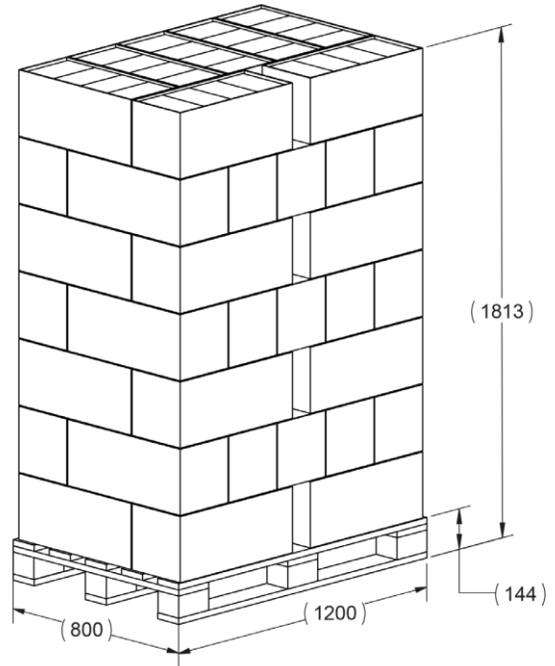


## PACKAGING

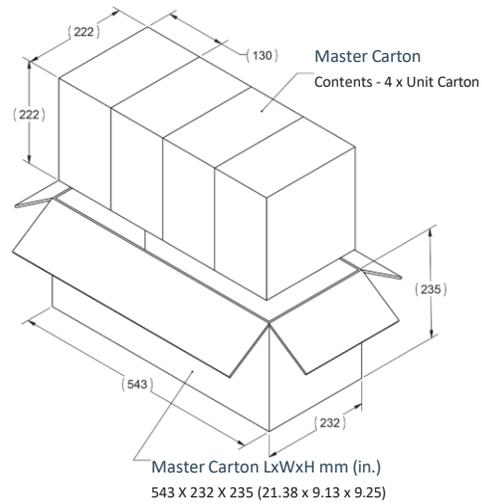
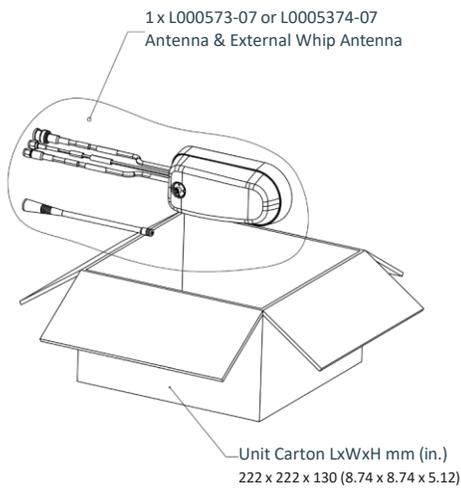
### Air Pallet



### Ocean Pallet



### Unit & Master Carton



PACKAGED DIMENSIONS	UNIT CARTON	MASTER CARTON	AIR PALLET	OCEAN PALLET
Number of Antennas	1	4	140	196
Height mm (in)	130 (5.12)	235 (9.25)	1335 (52.56)	1813 (71.38)
Length mm (in)	222 (8.74)	543 (21.38)	1200 (47.24)	1200 (47.24)
Width mm (in)	222 (8.74)	232 (9.13)	800 (31.50)	800 (31.50)
L000573-07 Est. Shipping Weight Inc. Pallet kg (lbs.)	1 (2.20)	4.6 (10.14)	178 (392.42)	243 (535.72)
L000574-07 Est. Shipping Weight Inc. Pallet kg (lbs.)	1.05 (2.31)	4.8 (10.58)	185 (407.86)	253 (557.77)

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