



The Gar VFD69383x2NNN multiport/multiband antenna provides an excellent solution for Public safety, transportation, and Aftermarket Fleet applications. Configured for two-port MIMO operation over the 3G/4G/5G/ISM/CBRS bands.

FEATURES AND BENEFITS

- One single-hole mount/fixing- reduces vehicle damage and the cost of installation
- Attractive IP67 low profile aerodynamic housing
- Multiband/Multiport MIMO 3G/4G/ISM/CBRS operation

APPLICATIONS

- FirstNet/Public safety
- Transportation
- Aftermarket fleet
- 5G-ready
- Rugged LTE gateways
- Others

ELECTRICAL SPECIFICATIONS

Antenna Model	VFD69383x2NNN								
Number of Ports	2								
Port Configuration	2x – 3G/4G/5G/ISM/CBRS (LTE/CELL)								
Operating Frequency (MHz)	698-806	824-894	880-960	1690-1880	1850-1990	1910-2180	2300-2500	2500-2700	3300-3800
Peak Gain* – Avg. (dBi)	0.2	1.0	1.5	3.6	3.5	2.9	3.2	4.0	5.1
Peak Gain* – Max (dBi)	1.8	1.8	2.1	4.9	3.9	3.9	3.9	4.7	7.2
VSWR** – Avg.	1.7	1.8	1.8	1.4	1.4	1.4	1.6	1.4	1.3
VSWR** – Max	2.5	2.2	2.3	2.0	2.0	2.1	2.0	2.0	2.0
Isolation (***) LTE1 to LTE2 (dB)	-10	-12	-14	-18	-17	-17	-21	-19	-27
Azimuth Plane 3 dB Beamwidth	360°, Omnidirectional								
Nominal Impedance (Ohms)	50								
Polarization	Linear Vertical								
Max Power - Ambient 25°C (W)	30 (LTE/CELL)								

Notes: (*) – This parameter is based on a 30cm (1ft) cable length and 30cm (1ft) ground plane.

(**) – This parameter is based on a 518cm (17ft) cable length and 30cm (1ft) ground plane.

Antenna specifications are subject to change according to the ground plane size.

MECHANICAL SPECIFICATIONS

Dimensions – L x W x H – mm (inches)	179 x 63 x 48 (7.04 x 2.48 x 1.69)
Weight – kg (lbs.)	0.65 kg (1.4 lbs)
Mounting	P-Mount
Cable Type	LMR 100- pigtailed, LMR 195- jumper cables, Black
Color	Black or White
Radome Material	PC, UL94-V0
Baseplate Material	Aluminum

ENVIRONMENTAL SPECIFICATIONS

Operating Environment	Outdoor Vehicle
Operating Temperature – °C (°F)	-30 to +70°C (-22 to +158°F)
Storage Temperature – °C (°F)	-40 to +85°C (-40 to +185°F)
Ingress Protection Rating	IP67
Rail Compliance Standards	EN61373 (Shock & Vibration), EN50155 (Temperature)
Material Substance Compliance	RoHS

CONFIGURATION

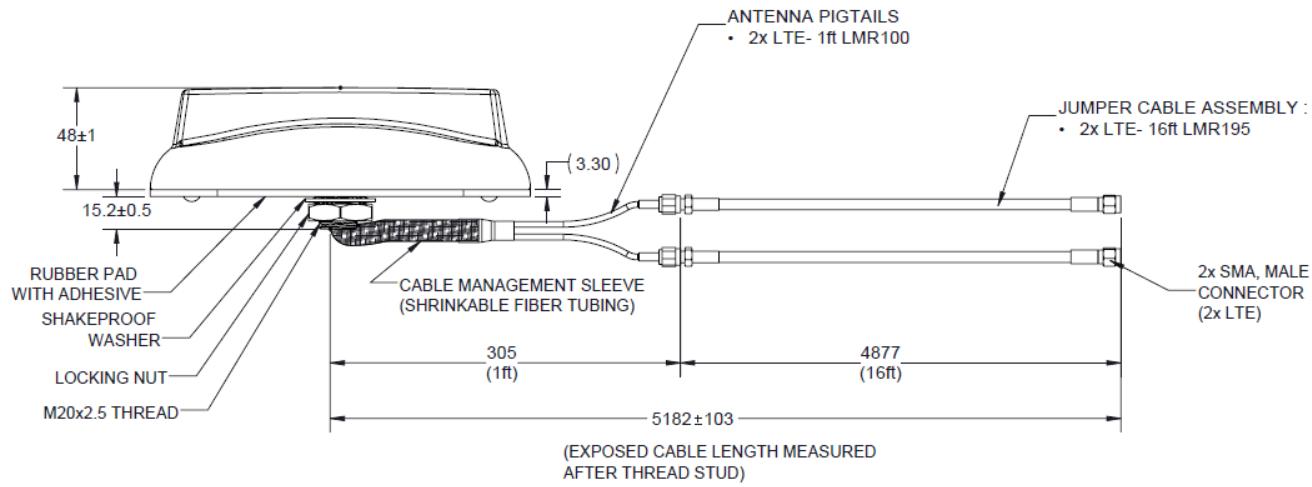
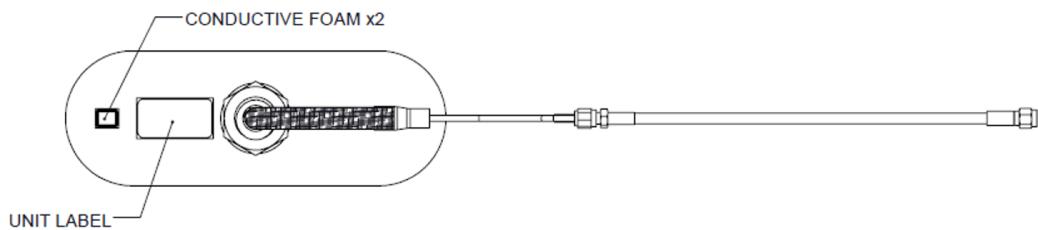
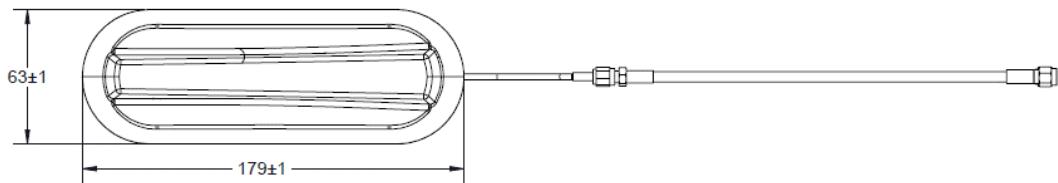
PART NUMBER	PIGTAIL CABLE LENGTH	JUMPER CABLE LENGTH	CONNECTOR – LTE PORTS	COLOR
VFD69383B2NNN-518R	0.3 m (1 ft.)	4.9 m (16 ft)	SMA-male	Black
VFD69383W2NNN-518R	0.3 m (1 ft.)	4.9 m (16 ft)	SMA-male	White

PACKAGING INFORMATION

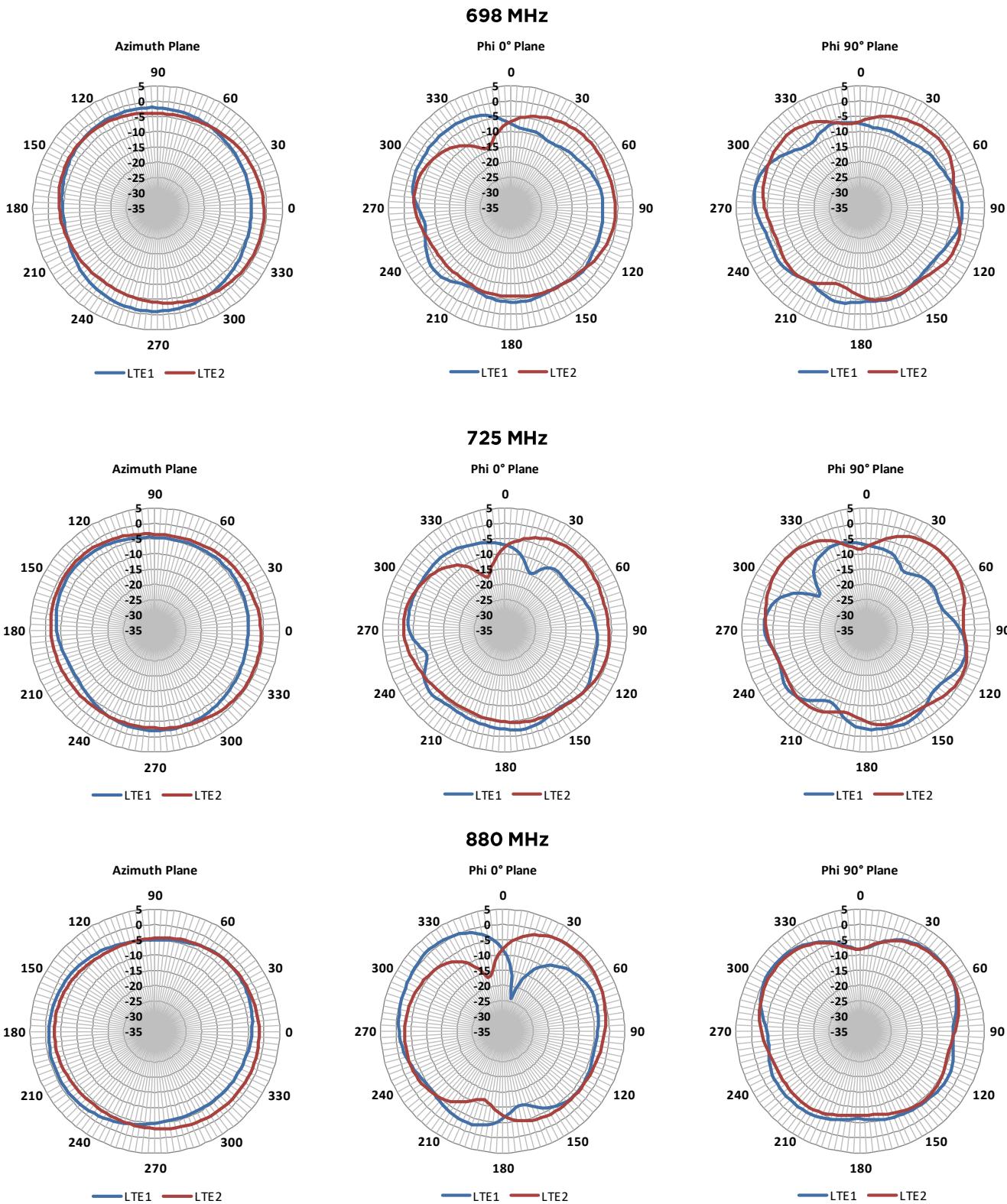
PACKAGED DIMENSIONS	CARTON	MASTER CARTON	AIR PALLET	OCEAN PALLET
Number of Antennas	1	4	140	196
Height – mm (in.)	130 (5.12)	235 (9.25)	1335 (52.56)	1813 (71.38)
Length – mm (in.)	222 (8.74)	543 (21.38)	1200 (47.24)	1200 (47.24)
Width – mm (in.)	222 (8.74)	232 (9.13)	800 (31.5)	800 (31.5)

Shipping Weight – kg (lb.)	0.88 (1.9)	4.06 (8.95)	155 (342)	212 (467)
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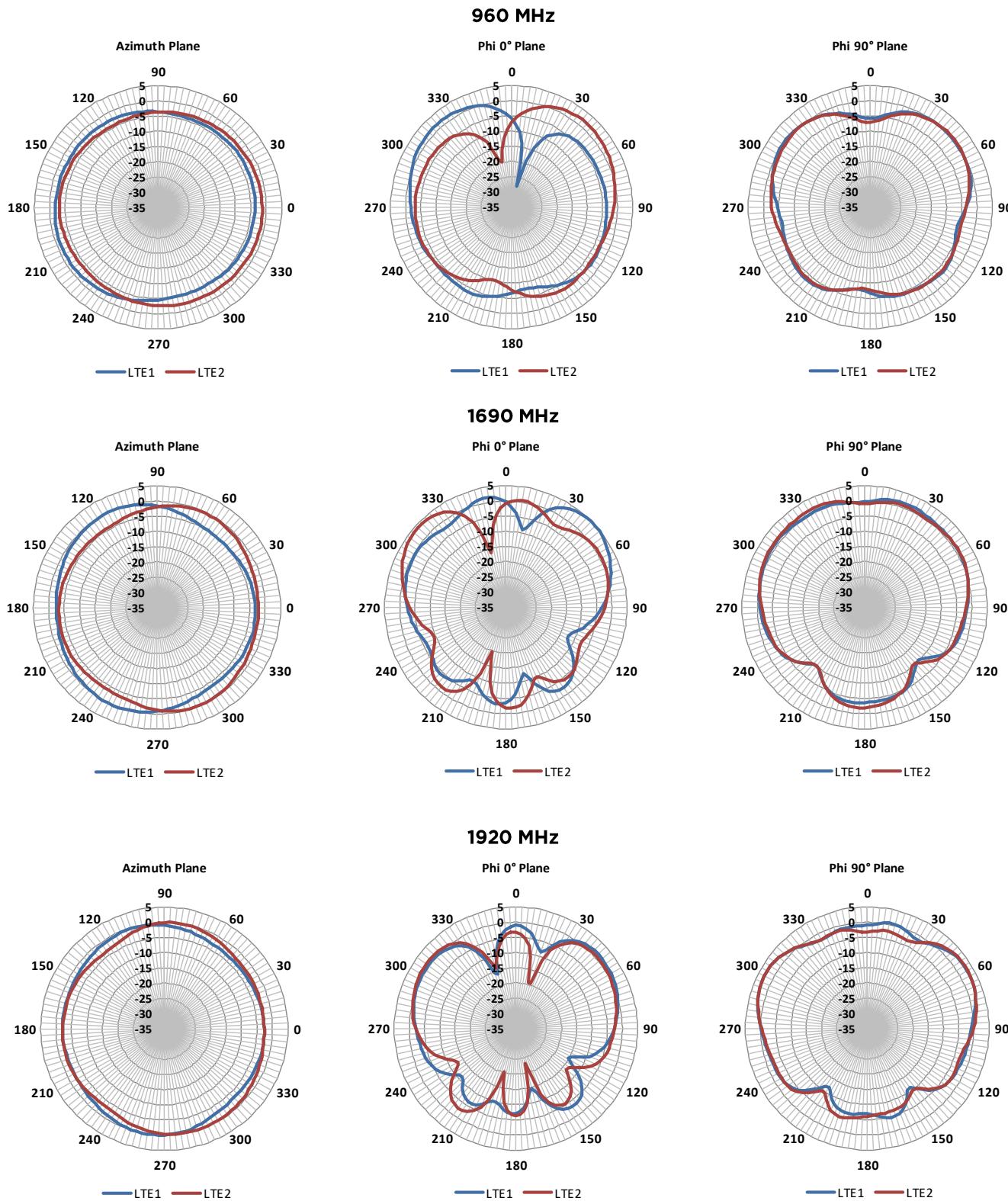
MECHANICAL DRAWINGS



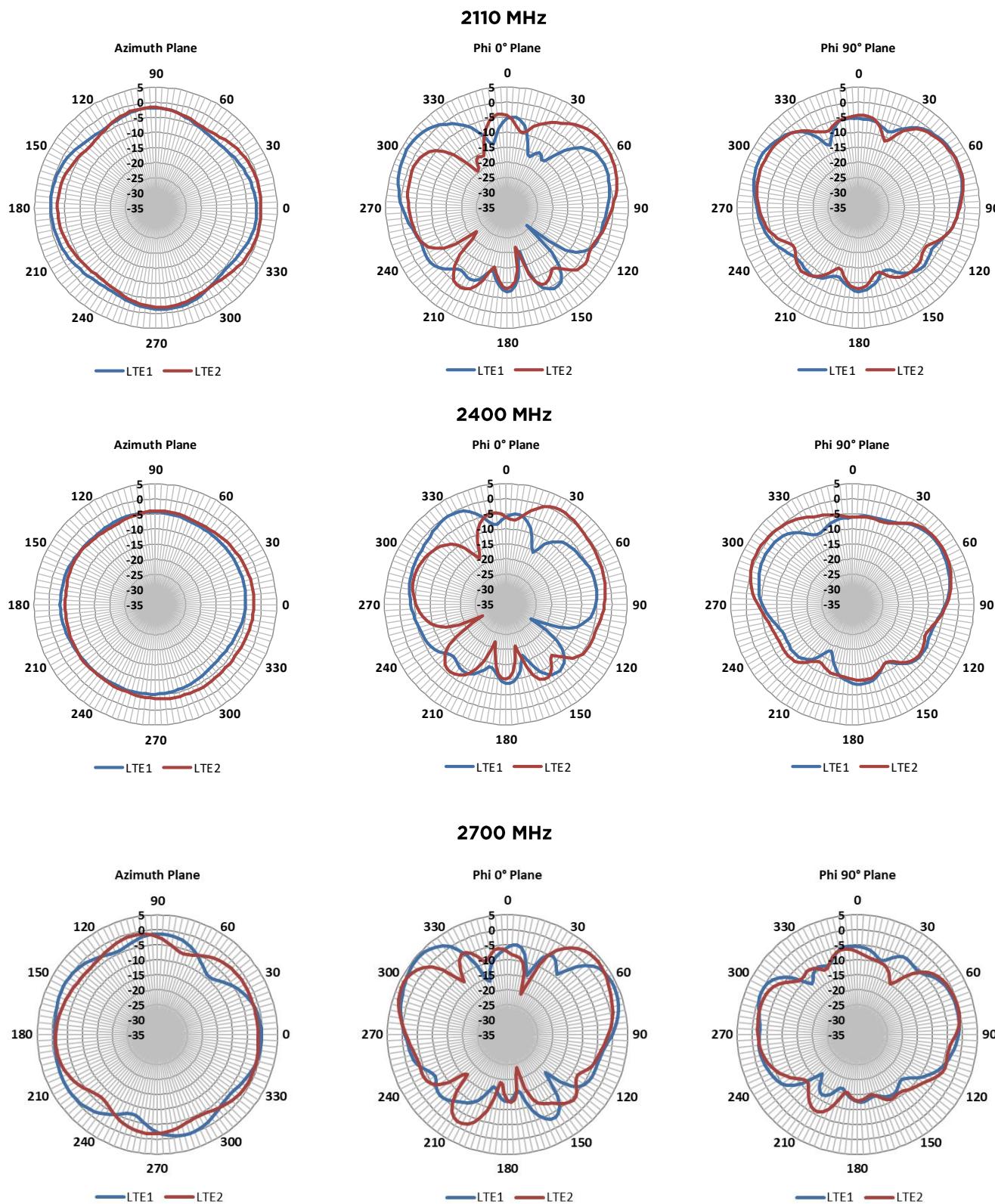
RADIATION PATTERNS – LTE ANTENNAS



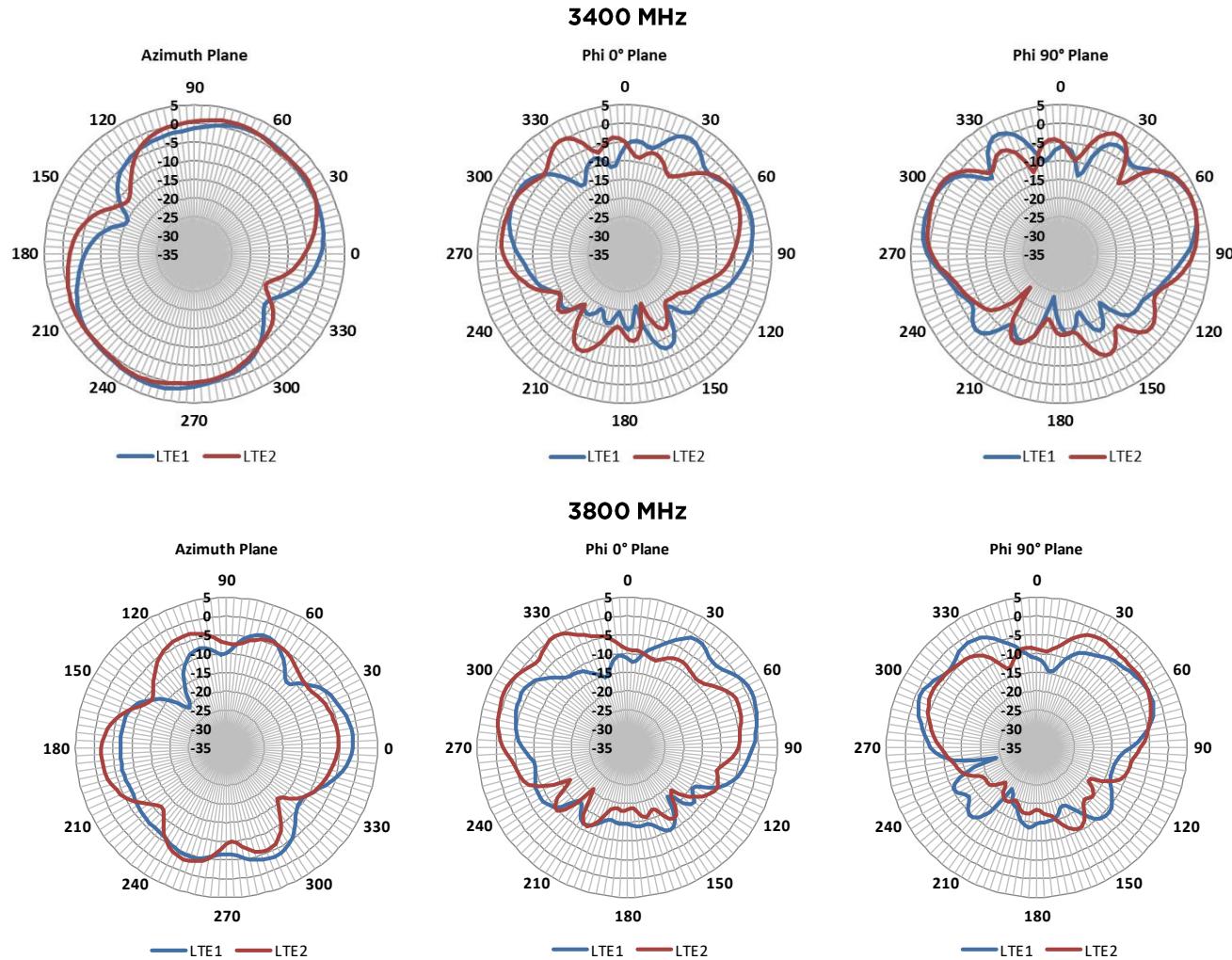
RADIATION PATTERNS – LTE ANTENNAS



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RADIATION PATTERNS – LTE ANTENNAS



RoHS

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