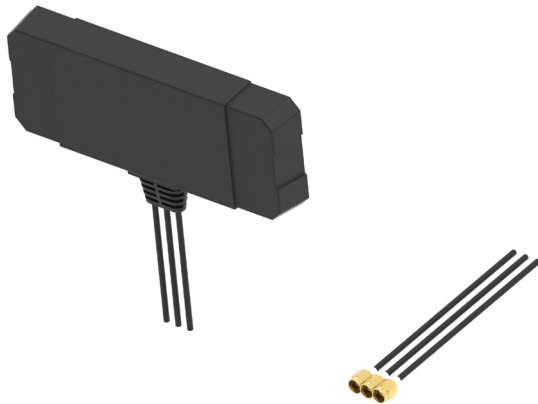




3-Port Candy Bar

L000631-01 - Multi-Port IoT Combination Antenna

The L000631-01 antenna offers 4G/5G cellular and GNSS coverage in an extremely compact form factor.

Supplied with 1 meter integrated cables and 'peel-and-stick' adhesive backing for ease of placement/mounting.

This feature combined with an IP67 rating and extensive mechanical and environmental testing makes this antenna an ideal solution for a broad range of IoT applications in both indoor and outdoor environments.

FEATURES

- Global cellular 617-4200 MHz and L1 Band GNSS coverage from a single antenna 2x LTE, 1x GNSS ports
- Supports NTN SatCom, CAT-M, CAT-1 to CAT-4, and NB-IoT
- Extensive mechanical and environmental testing including ingress protection, flammability, shock, vibration and more
- Suitable for mounting on a variety of non-metallic surfaces via adhesive backing
- Versatile for a number of applications
- Low profile, extremely compact form factor

APPLICATIONS

- IoT endpoints
- Digital display and signage
- EV charging
- Smart lockers and storage
- Ticketing systems
- Smart terminals
- Data monitoring

ELECTRICAL SPECIFICATION

Port Count	2 x Cellular LTE				
Operating Frequency (MHz)	617 - 698	698 - 960	1427 - 1675	1710 - 2750	3300 - 4200
Peak Gain Max. (dBi)*	5.0	6.5	5.0	6.0	3.0
Total Efficiency Ave.*	60%	60%	40%	60%	38%
VSWR Ave.*	3.0:1	2.0:1	4.0:1	2.0:1	2.5:1
Isolation Ave. (dB)*	12	10	30	20	28
Max Power - Ambient 25°C (W)	20				
Nominal Impedance (Ohms)	50				
Polarization	Linear				
LTE Antenna DC Grounded	Yes				

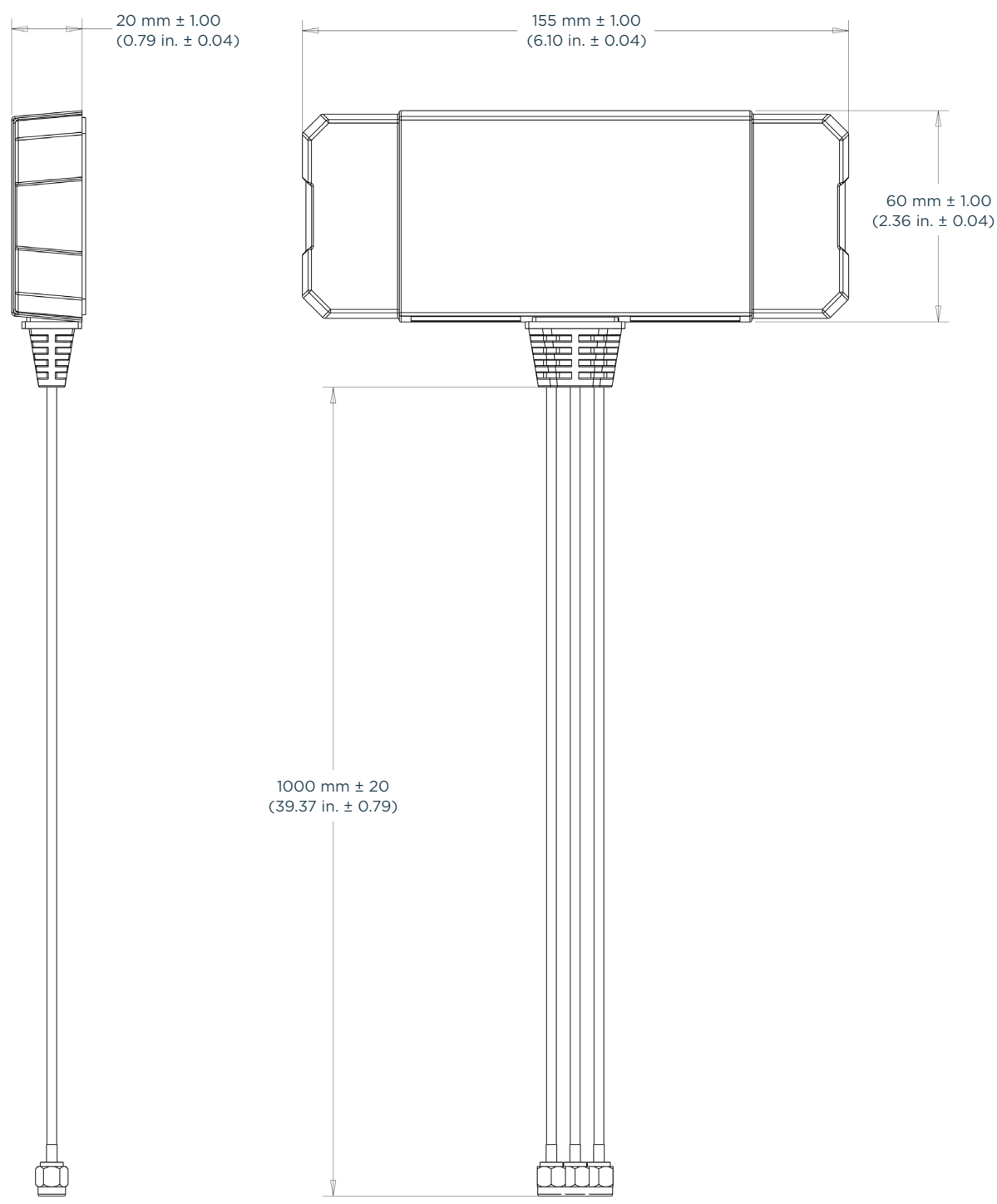
*Measured with 1m LMR195 equivalent coax cable (SMA-M connector)

ELECTRICAL SPECIFICATION - GNSS	
Frequency (MHz)	1559-1607
LNA Gain (dBi)	28±3
Noise Figure (dB)	≤ 1.5
Max VSWR	2.8:1
Polarization	RHCP
Nominal Impedance (Ohms)	50
DC Voltage (Vdc)	2.7-5
Input Max Power @ DC 3V (dBm)	-10
Out-of-band Rejection (dBc)	63 @ 350-520 MHz 62 @ 698-960 MHz 58 @ 1428-1511 MHz 62 @ 1710-2700 MHz
Cable Type	RG174
Connector	SMA male

MECHANICAL SPECIFICATION	
Dimensions - length x width x height mm (in.)	155 x 60 x 22 (6.10 x 2.36 x 0.87)
Weight kg (lb)	0.23 (0.51)
Radome Rating	UL94-v0
Color	Black
Connector Position	Side
Antenna Installation	Adhesive Mount
Cable Type	GNSS 1x RG174; LTE 2x LMR 195 Equivalent (1m / 39.37in. length)
Cable Jacket Rating	UV4
Connector	SMA male

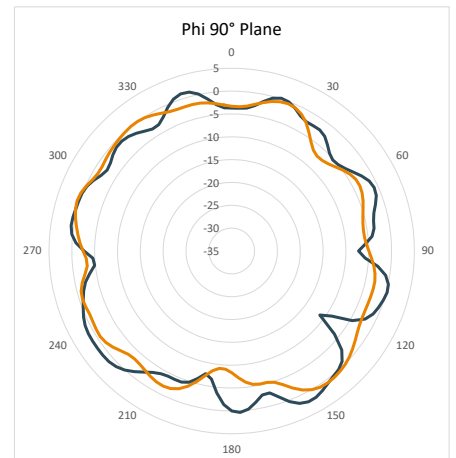
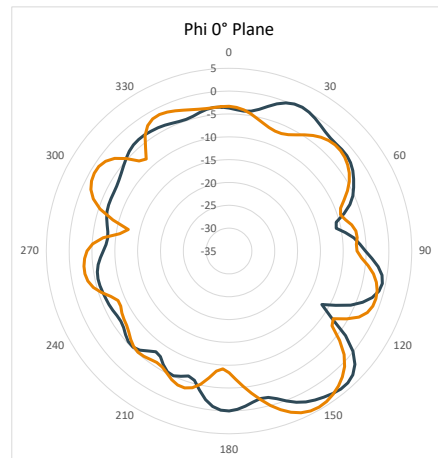
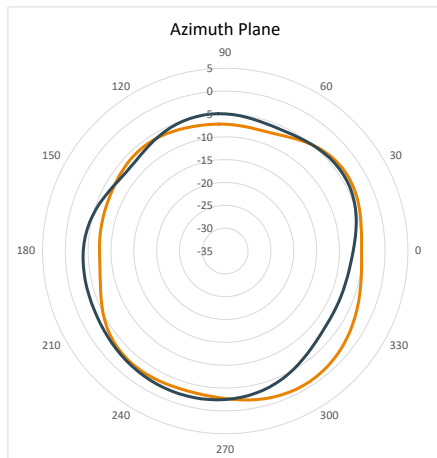
ENVIRONMENTAL SPECIFICATION	
Operating Temperature - °C (°F)	-45 to +80 (-49 to +176)
Storage Temperature - °C (°F)	-45 to +80 (-49 to +176)
Temperature Cycling	IEC 68-2-14/Test Nb: -40°C ~ 80 °C 5±1 °C/min, 2 cycles, dwell time: 2 H
UV Rating	ASTM-G-155/Filter: Extended UV, Irradiance: 0.55 W/m ² *nm, Wavelength: 340 nm
Flammability Rating	UL 94-HB
Ingress Protection	IP67 (IEC 60529, IPx7, EN 60529, IP6x)
Material Substance Compliance	RoHS + REACH + HF
Mechanical Shock Rating	IEC 60068-2-27
Vibration Test Rating	IEC60068-2-64
Humidity Rating	MIL-STD 810G/Method 507.5/Procedure II (Aggravated Cycle): 5±1 °C/min
Pull Test - Cable	20 lbs - 30 second Durations
Drop Test - Radome	1 m Drop on Hard Surface (5 Drops Total)
Material Substance Compliance	RoHS, REACH, CE, UKCA

MECHANICAL DRAWING

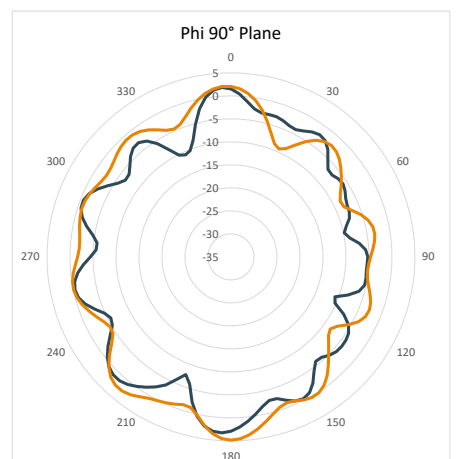
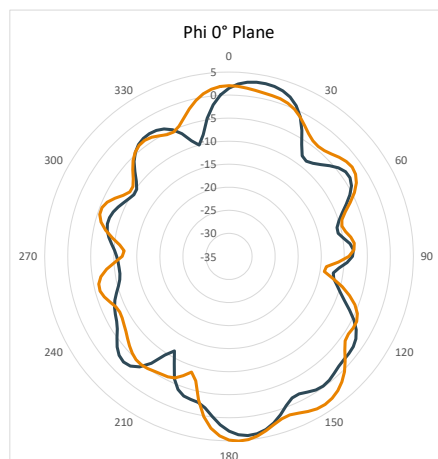
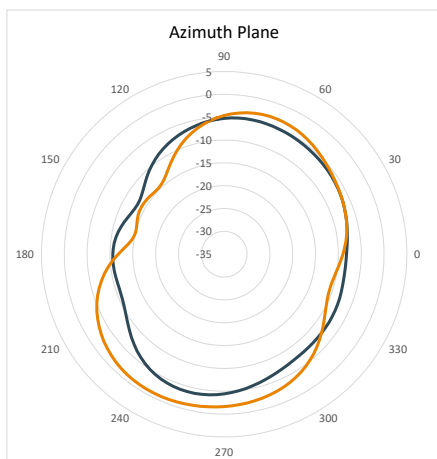


RADIATION PATTERNS

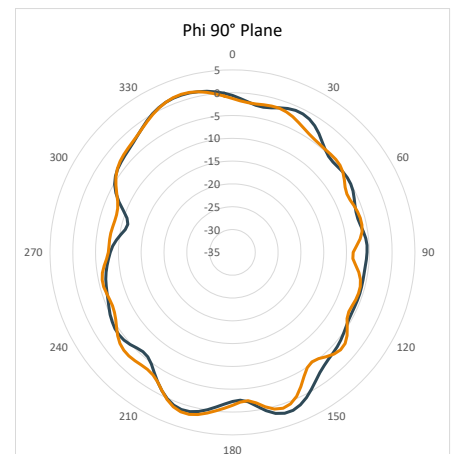
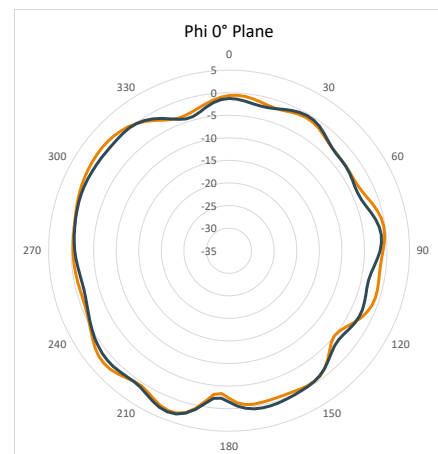
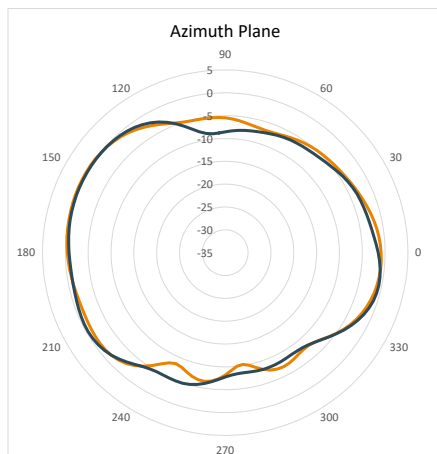
Radiation Patterns 617 - 698 MHz



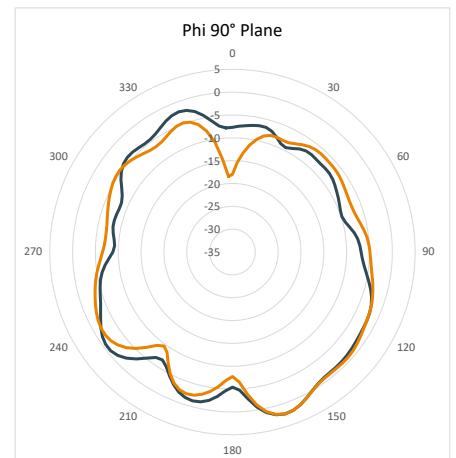
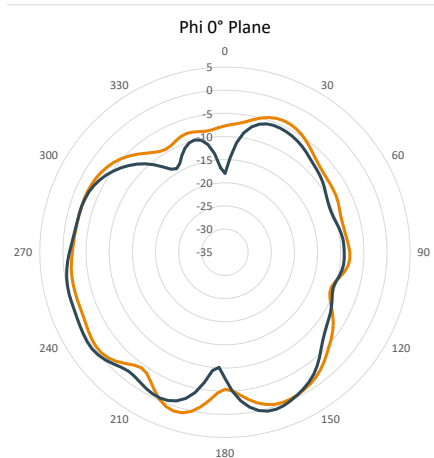
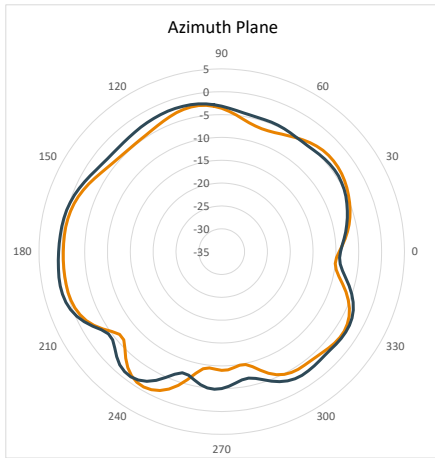
Radiation Patterns 698 - 960 MHz



Radiation Patterns 1930 - 2700 MHz

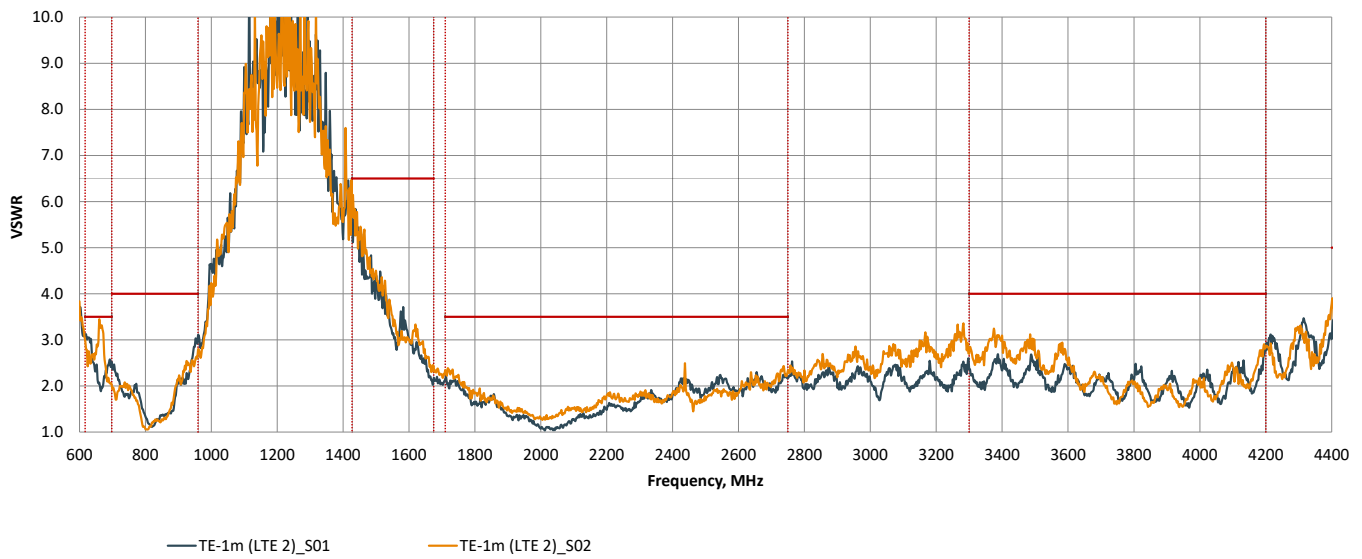


Radiation Pattern at 3300 - 4200 MHz

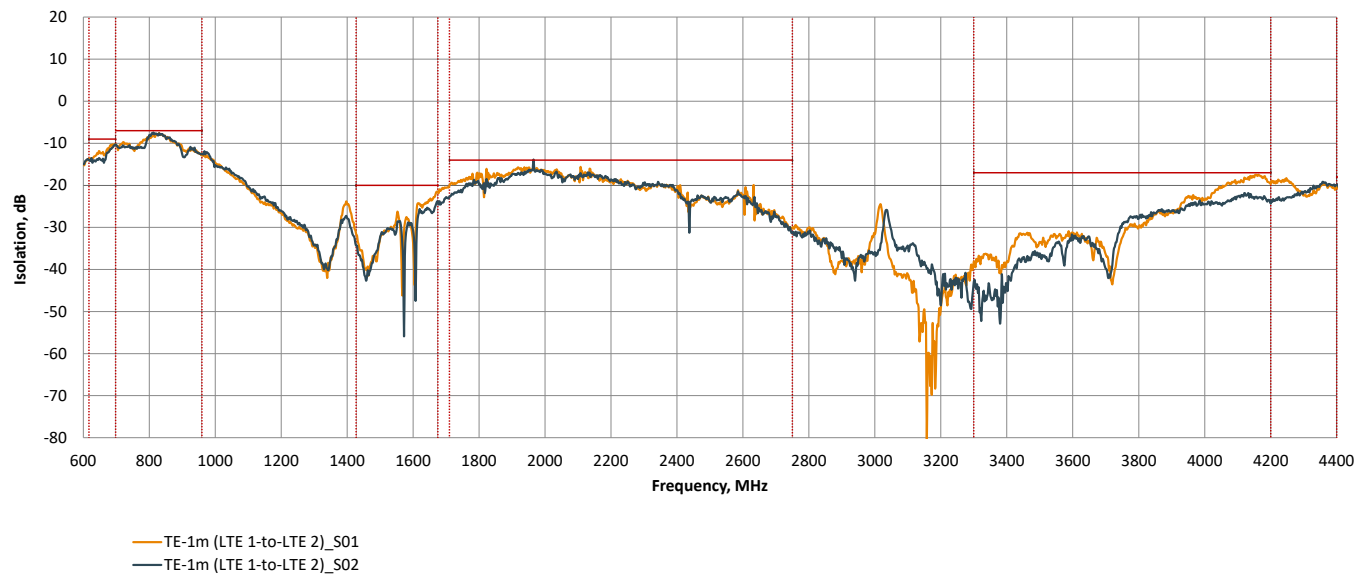


RF PERFORMANCE

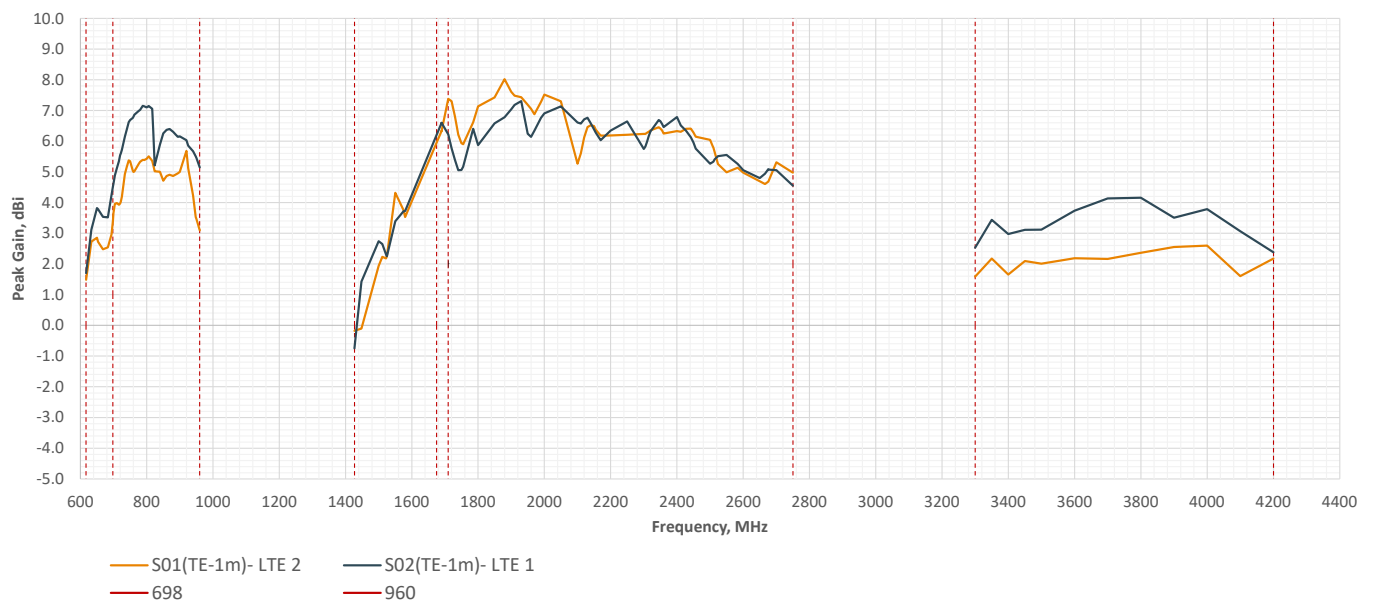
VSWR



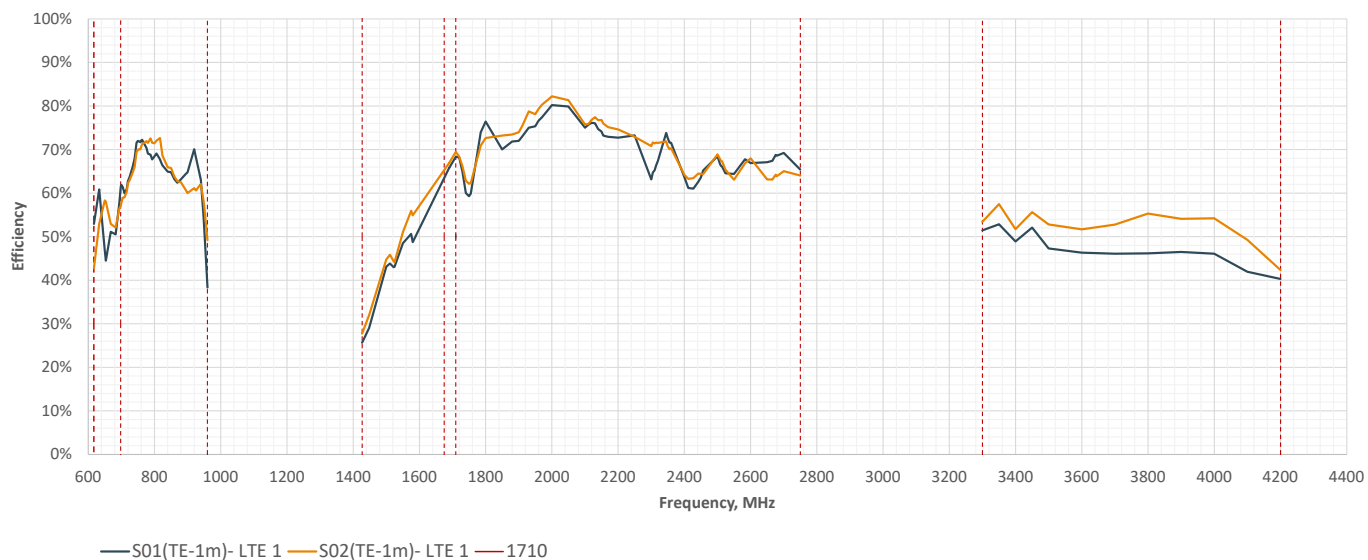
VSWR



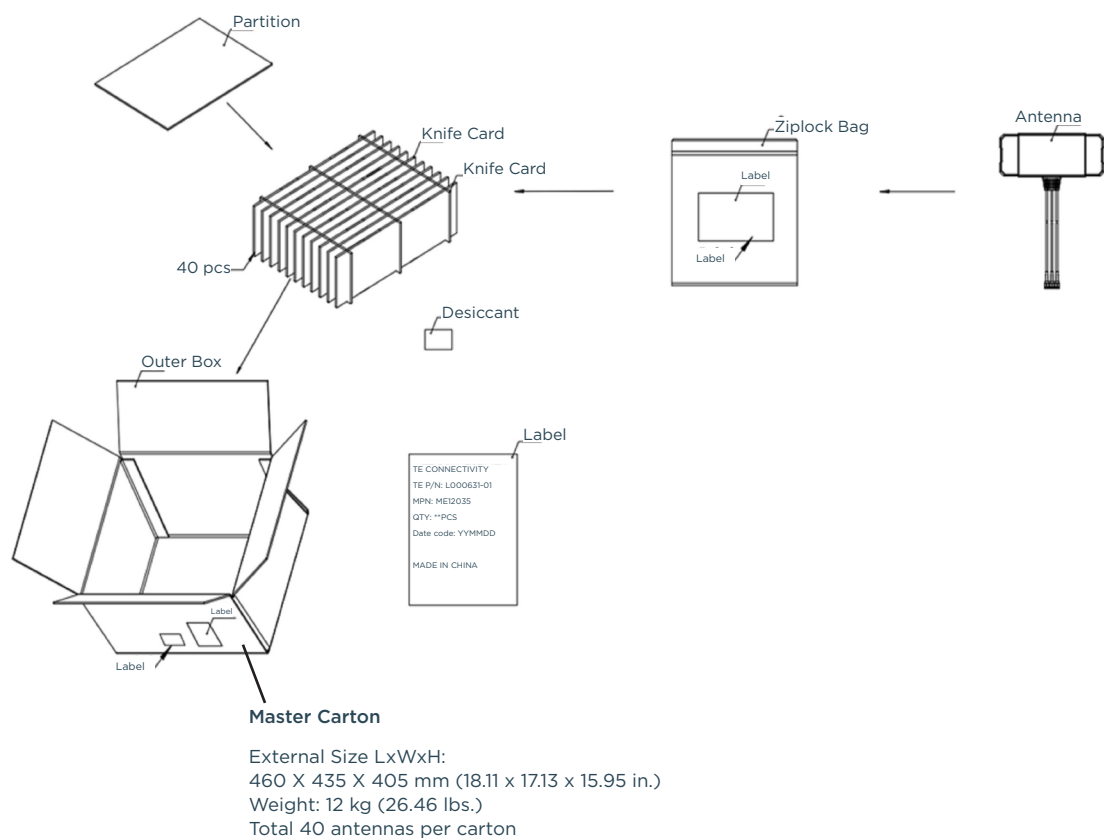
Peak Gain



Efficiency



PACKING INFORMATION



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