

# Manhole Cover Antenna

Part Number:  
HTL-MH-0004

Please refer to end of document for full product order codes



## PRODUCT: HTL-MH-0004

LTE (EU & NORTH AMERICA, CELLULAR (2G, 3G, 4G)

### Technical Data

- RoHS 2002/95/EC (EU compliant)
- PCB element is embedded within rugged ABS housing
- Injection moulded for IP waterproof rating IP68
- M10X1 through bolt for secure mounting solution
- Request samples for test & evaluation via [office@hubit.co.uk](mailto:office@hubit.co.uk)

### TECHNICAL DATA

DIMENSIONS	30.6mm dia x 5.8mm - 20mm/40mm bolt lengths available)
WEIGHT	35g
MOUNTING ARRANGEMENT	M10 stainless steel split nut, combined with 3M adhesive pad mounting on any surface
TEMPERATURE RANGE	-40°C to +85°C
PROTECTION CLASS	IP68 (IEC 60529)
CONSTRUCTION MATERIALS	PC/ABC UL94 V0   UV stable

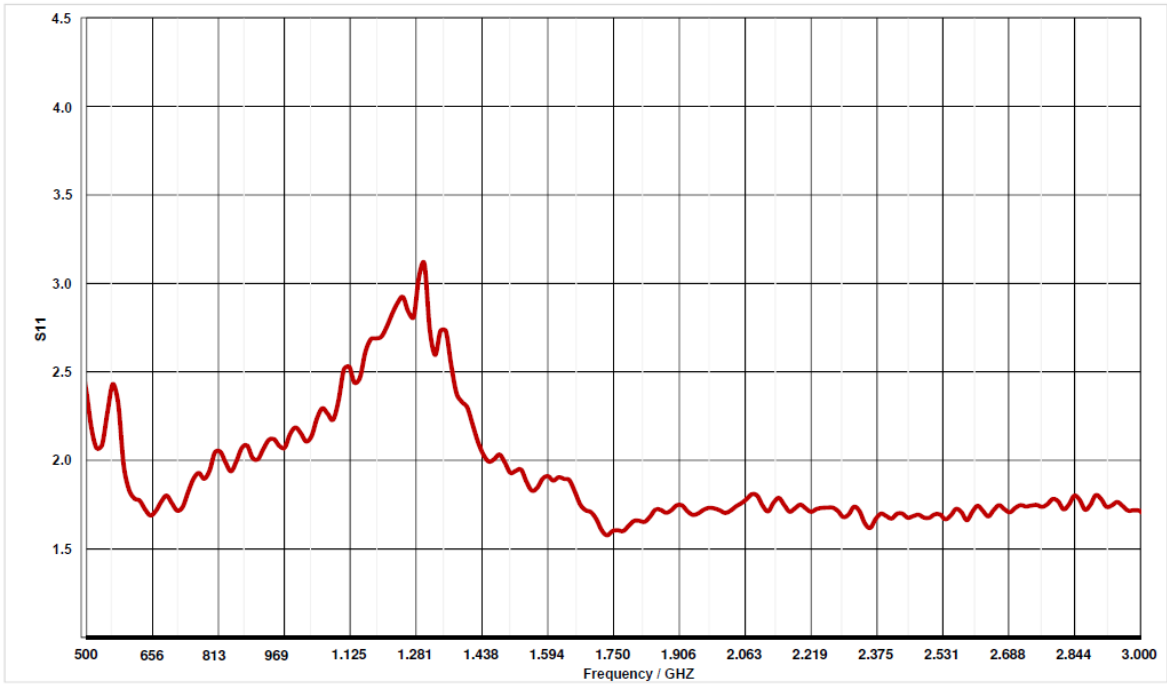
### CELLULAR LTE / 2G / 3G

FREQUENCY RANGE	LTE 700 + GSM 900: 698 - 960 MHz GSM 1800: 1710 - 1880 MHz UMTS: 1920 - 2170 MHz WLAN + LTE (high): 2300 - 2700 MHz
GAIN	LTE 700 + GSM 900: 698 - 960 MHz; 0dBi GSM 1800: 1710 - 1880 MHz; 2.14dBi UMTS: 1920 - 2170 MHz; 2.14dBi WLAN + LTE (high): 2300 - 2700 MHz; 2.14dBi
IMPEDANCE	50 Ohm
POLARISATION	Vertical
MAX POWER @ 30°C	LTE 700 + GSM 900: 35 Watts @ 698 - 960 MHz GSM 1800: 35 Watts @ 1710 - 1880 MHz UMTS: 35 Watts @ 1920 - 2170 MHz WLAN + LTE (high): 35 Watts @ 2300 - 2700 MHz
RADIATION PATTERN	Omni-directional
RETURN LOSS (VSWR)	≤2.2:1 (all bands)
RADIATOR TYPE	Folded monopole

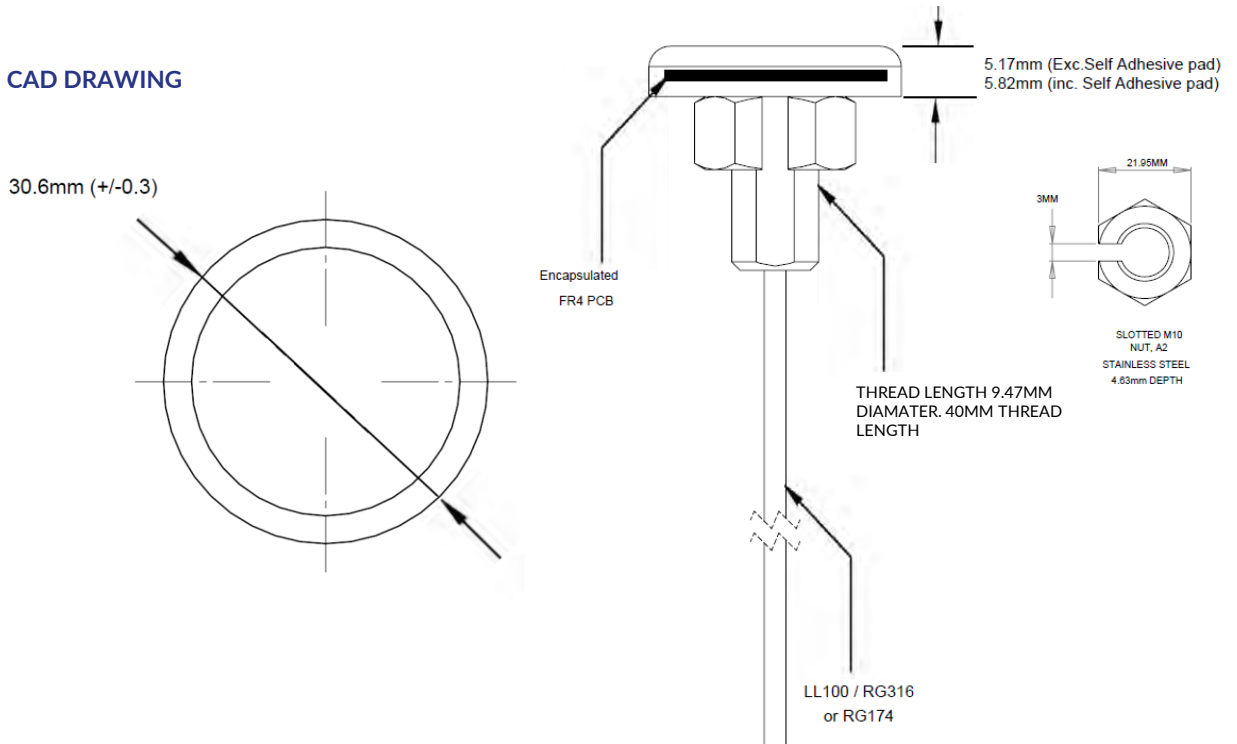
### PHYSICAL CHARACTERISTICS

HUMIDITY	100% @ 25°C
CONNECTOR	According to customer specification
CABLE LENGTH	1500mm - 3000mm
CABLE TYPE	RG316 Black

### TYPICAL VSWR



### CAD DRAWING



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## ORDER CODES

HTL-MH-0004/XX/XX

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Connector type

- HTL-MH-0004/SMA-M/2.5M - SMA male connector, 2.5m cable
- HTL-MH-0004/RPSMA-M/2.5M - Reverse polarity SMA male connector, 2.5m cable
- HTL-MH-0004/FME-F/2.5M - FME female connector, 2.5m cable
- HTL-MH-0004/TNC-M/2.5M - TNC male connector, 2.5m cable
- HTL-MH-0004/2KR/SMA-M/2.5M - DC short 2k Ohm resistor with SMA male connector, 2.5m cable