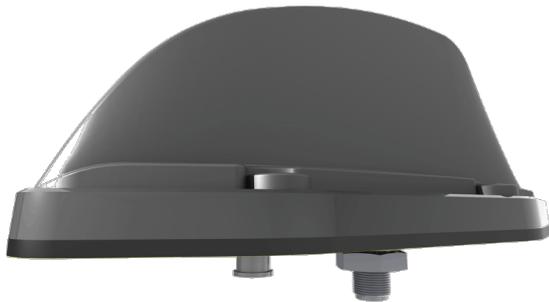


TRNC[G]-TET

- Standard four hole rail fixing
- Wideband UHF element
- Optional Integrated GPS / GNSS / antenna [TRNCG version]



The TRNC(G) antenna series has been designed specifically for use on trains, trams and buses underground or over ground.

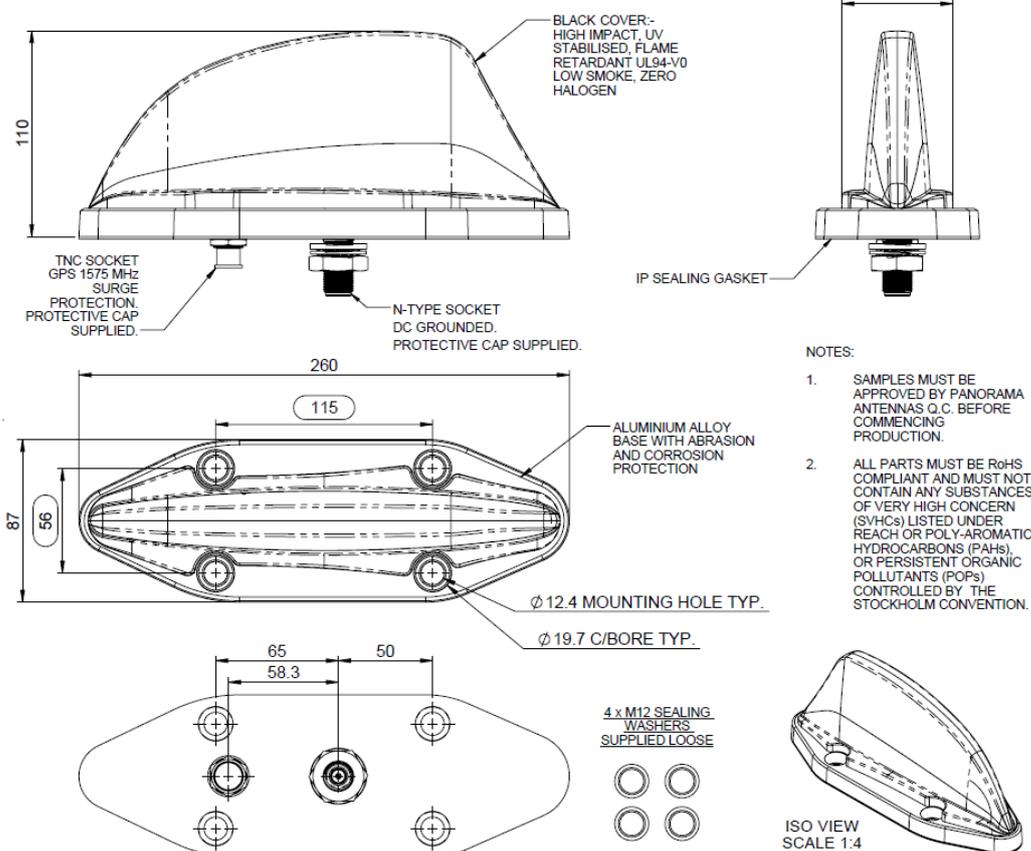
The TRNC(G)-TET range covers 380-430MHz UHF with optional GPS/GNSS with a 26dB LNA. The radiating element is DC grounded and, in versions with a GPS module it is protected by a gas discharge surge arrestor.

Housed in a high impact, flame retardant Ultem housing, the TRNC(G) series is weatherproof ensuring that the antenna's performance is never compromised.

The TRNC[G]-TET meets stringent industry standards including EN50155, EN45545-2 (HL1-3) and is ingress protected to IP69K when properly installed.

Technical Drawing

TRNCG-TET Shown



TETRA UHF UHF Transit Antenna

TRNC[G]-TET

Product Data

Part No.	TRNCG-TET	TRNC-TET
Electrical Data		
Frequency Range (MHz)	380-430 MHz	
Peak Gain: **	380-430MHz	5dBi
Polarisation	Vertical	
Typical VSWR*	< 2:1	
Pattern	Omni-directional	
Impedance	50Ω	
Max Input Power (W)	60	
GPS Data		
Frequency Range (MHz)	1560-1612	-
Impedance	50Ω	-
LNA Gain	26dB ± 3	-
Polarisation	Righth Hand Circular	-
Operating Voltage	3-5V DC	-
Current (Typical)	15mA	-
GPS Antenna EMC Compliance	EN 301 489-1 V1.81 & EN 301 489-3 V1.6.1 EN 50121-3-2:2015	-
Mechanical Data		
Dimensions (mm)	Height (N/inc pad)	110 (4.33")
	Width	87 (3.42")
	Length	260 (10.23")
Environmental Specification		
Operating Temp (°C)	-40° / +80°C (-40° / +176°F)	
Radome Material	Ultem 1000	
Radome Flame Retardance Rating	V0 (UL 94)	
Base Material	Cast Aluminium	
Ingress Protection	IP67 (Report No. 98883) or IP69K when installed in accordance with SW3 - 988 (Report No. 103439)	
Approvals Data		
Regulatory Approvals	EN50155:2007 (Dry heat & Cooling), EN61373:2010 / EN50155:2007 (Shock & Vibration), EN45545 - HL3 (flammability)	
Mounting Data		
Fixing	4 × mounting holes to suit M12 bolts	
Termination Data		
Termination	Comms	N (female) - DC grounded
	GPS	TNC (female) - surge protected

** Simulated on a 600 x 600mm (2' x 2') ground plane without cable.

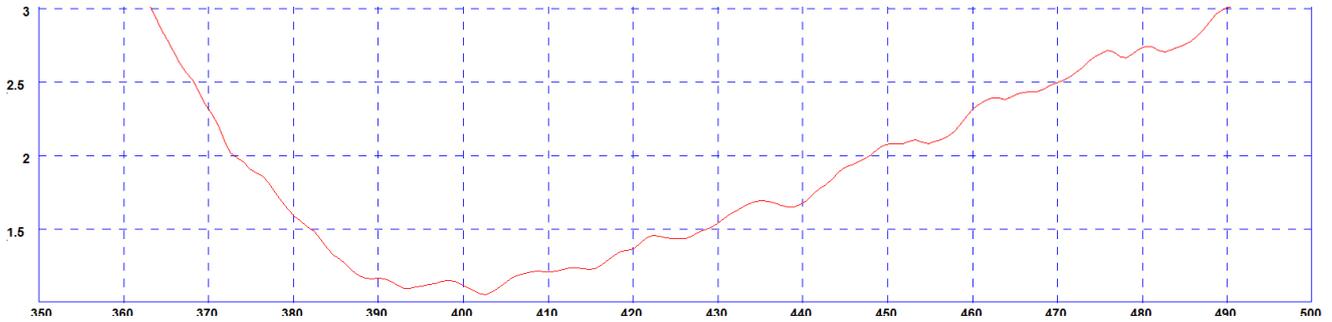
* Measured on a 600 x 600mm (2' x 2') ground plane with 1m (3') of low loss cable.

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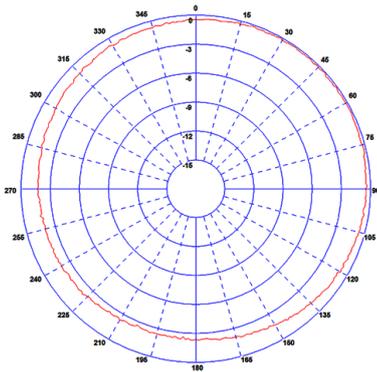
Electrical Data

Typical VSWR*

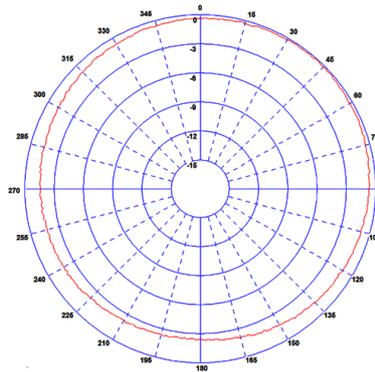


* Measured on a 600 x 600mm (2' x 2') ground plane with 1m (3') of low loss cable

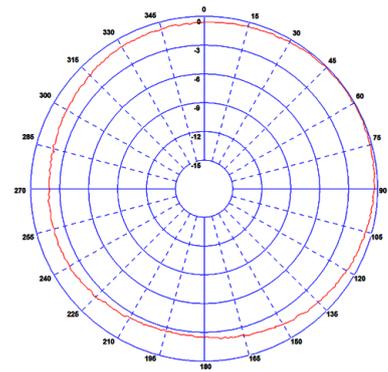
Typical H Plane - 380MHz



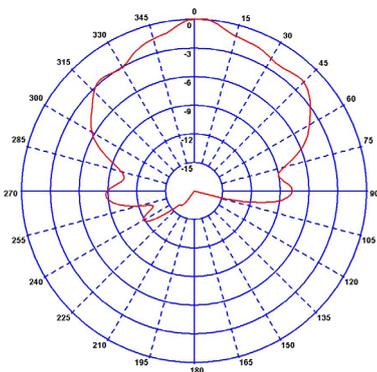
Typical H Plane - 400MHz



Typical H Plane - 430MHz



Typical E-Plane Pattern - (GPS) 1575MHz



Patterns measured on a 600 x 600 (2' x 2') ground plane without cable