UHF Transit Antenna

TRNC[G]

TRNC[G]

- 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.

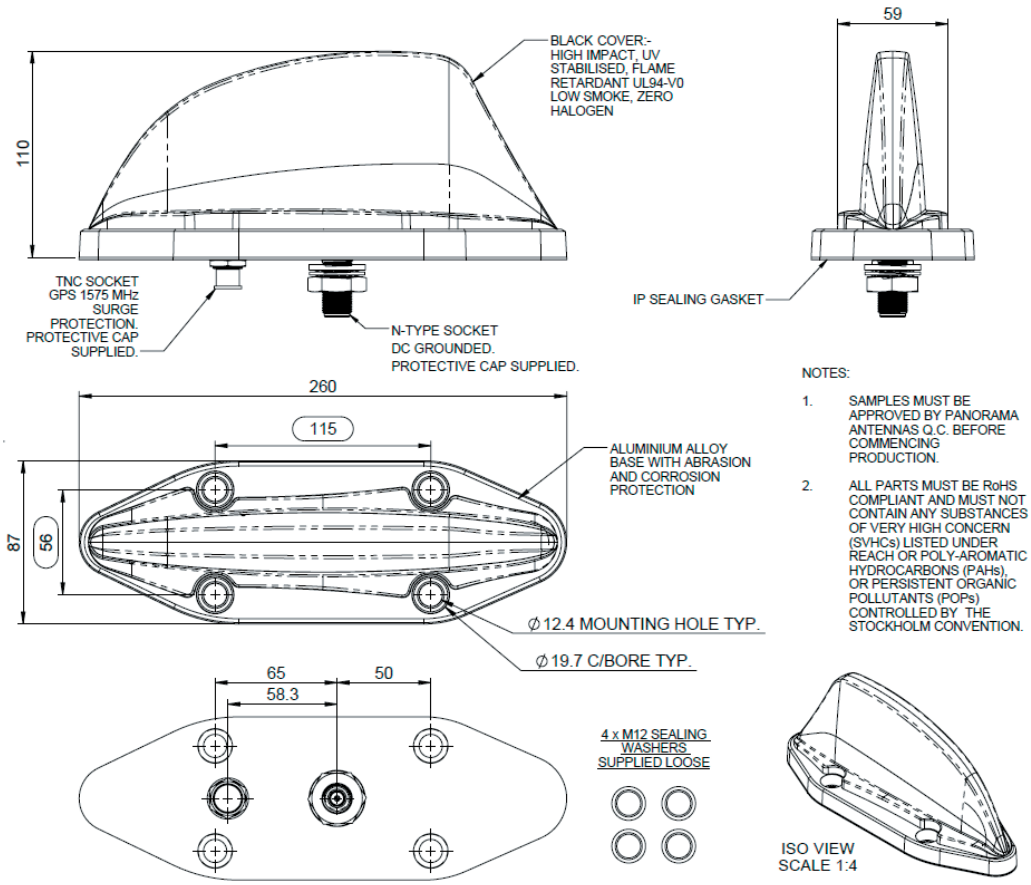
The TRNC[G] range covers 380-430MHz or 450-470MHz UHF with optional GPS/GNSS with a 26dB LNA. The radiating element is DC grounded and, in versions with a GPS module it is protected by a gas discharge surge arrestor.

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

Technical Drawing

Part No.TRNCG-TET



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PANORAMA ANTENNAS

Product Data

Part No.		TRNCG-TET	TRNC-TET	TRNCG-S4	TRNC-S4
Electrical Data					
Frequency Range (MHz)		380-430		450-470	
Peak Gain **	380-430MHz	5dBi			
	450-470MHz	5dBi			
Polarisation		Vertical			
Typical VSWR*		<2:1			
Pattern		Omni-directional			
Impedance		50Ω			
Max input power (W)		60			
GPS Data					
Frequency Range (MHz)		1560-1612	-	1560-1612	-
Impendance		50Ω	-	50Ω	-
LNA Peak Gain		26dB ± 3	-	26dB ± 3	-
Polarisation		Right Hand Circular	-	Right Hand Circular	-
Operating Voltage		3-5V DC	-	3-5V DC	-
Current (Typical)		15mA	-	15mA	-
GPS Antenna EMC Compliance		EN 301 489-1 V1.81 & EN 301 489-3 v1.61 EN 50121-3-2:2015	-	EN 301 489-1 V1.81 & EN 301 489-3 v1.61 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 Specifiction					
Operating Temp (°C)		-40° / +80°C (-40° / +176°F)			
Radome Material		Ultrem 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 hear & Cooling), EN61373:2010 / EN50155:2007 (Shock & Vibration), EN45545 - HL3 (Flammability)			
Mounting Data					
Fixing		4x Mounting holes to suit M12 bolts			
Cable Data					
Termination	Comms	N (female) - DC grounded			
	GPS	TNC (female) - surge protected			

** Measured on a 1x1m (3'x3') ground plane excluding cable loss.

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

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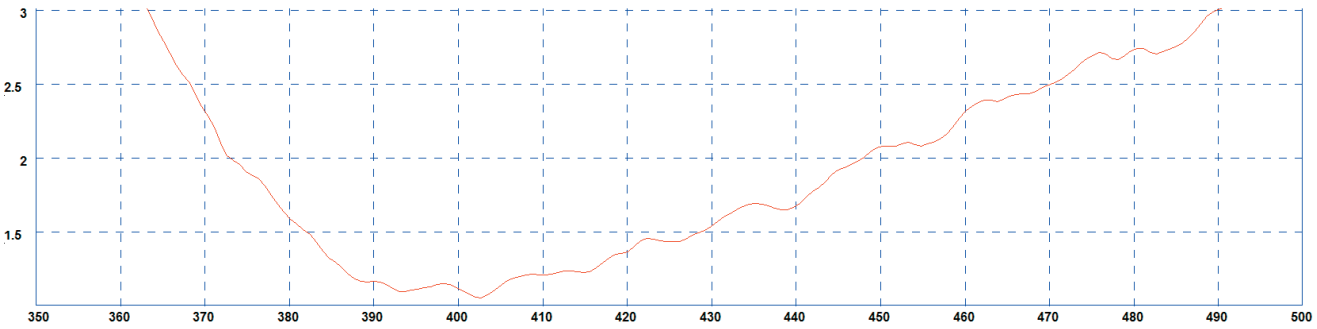
Electrical Data

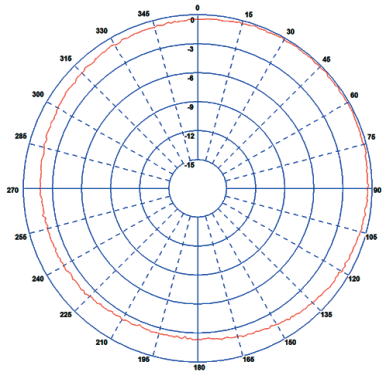
*TRNC-TET data shown

Typical VSWR

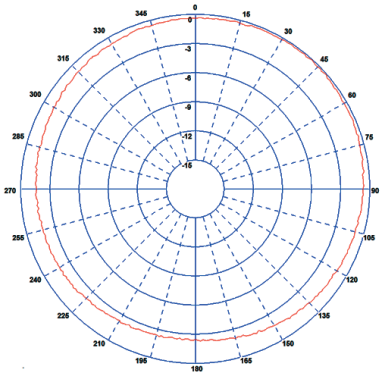


* Measured on a 600x600mm (2'x2') ground plane with 1m (3') of low loss cable

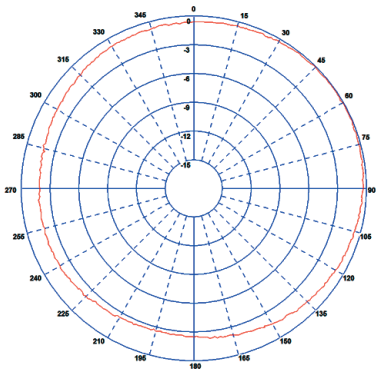
Typical H Plane - 380MHz



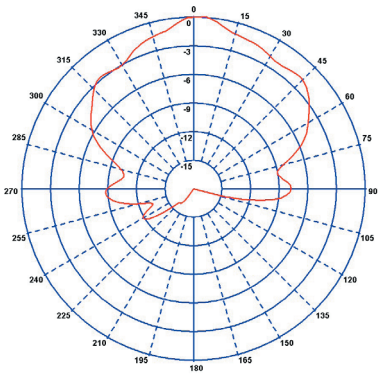
Typical H Plane - 400MHz



Typical H Plane - 430MHz



Typical E-Plane Pattern - (GPS) 1575MHz



Patterns measures on a 600x600mm (2'x2') ground plane without cable

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