UHF Transit Antenna TRNC[G]-S2

07/11/2019 V1



TRNC[G]-S2

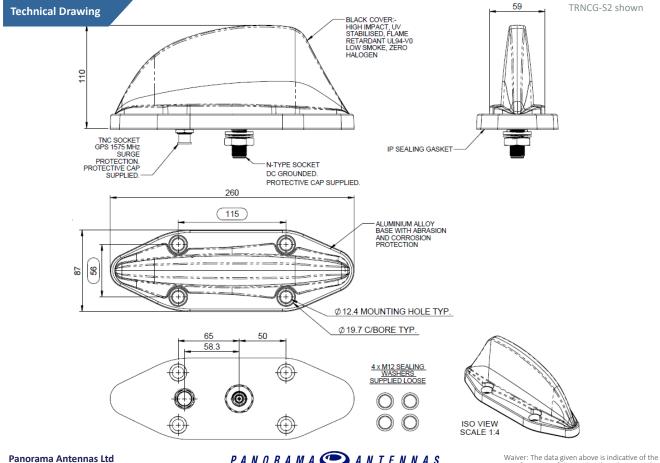
Standard four hole rail fixing Wideband UHF element Optional Integrated GPS / GNSS / antenna [TRNCG version]

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

The TRNC(G)-S2 range covers 410-430MHz 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 features IP69K protection (when properly installed) ensuring that the antenna's performance is never compromised.

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



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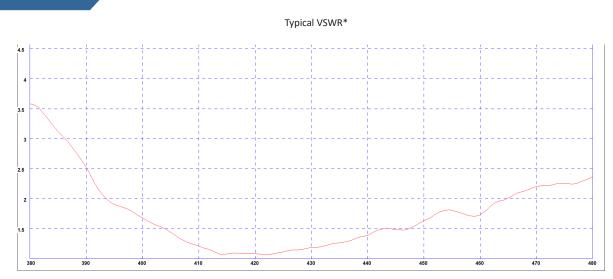
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UHF Transit Antenna

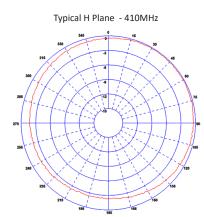
Part No.			
		TRNCG-S2	TRNC-S2
Electrical Data			
Frequency Range (MHz)		410-430MHz	
Peak Gain: **		5dBi	
Polarisation		Vertical	
Typical VSWR*		< 2:1	
Pattern		Omni-directional	
Impedance		50Ω	
Max Input Power (W)		60	
GPS Data			
Frequency Range (MHz)		1560-1612	•
Impedance		50Ω	-
LNA Gain		26dB ± 3	-
Polarisation		Rigth 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 Spec	ification		
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) 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	



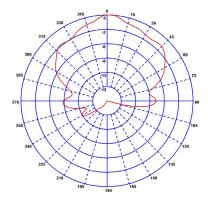
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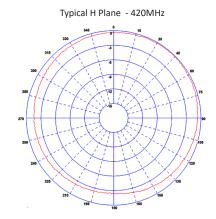
*This VSWR was measured on a 600x600mm ground plane with 1m of CS29 cable.

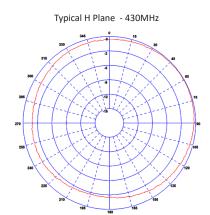


Typical E-Plane Pattern - (GPS) 1575MHz



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