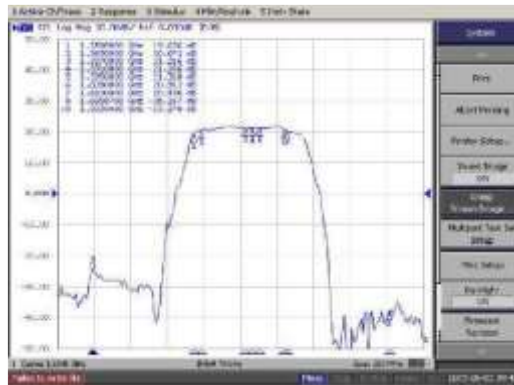
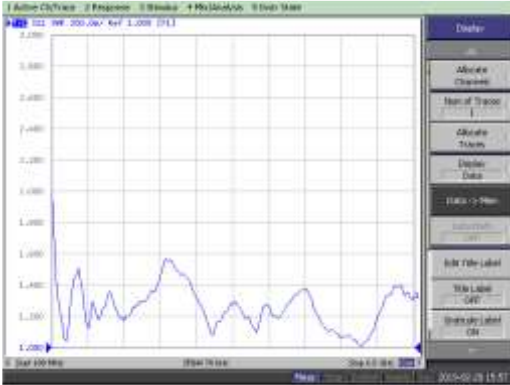


T-BP650 Low Profile Antenna

GPS / WLAN / LTE-5G

Train classified for:
 EN 50155:2018
 CEI EN 50121-3-2:2018
 EN 610004-2
 EN 60529 +A1+A2

MOUNT TYPE	Low Profile Antenna with GPS, WLAN and LTE
GPS/GNSS/GALILEO antenna part:	
ANTENNA TYPE	Active planar patch antenna
POLARISATION	RHC (Right Hand Circular)
FREQUENCY	1580 MHz \pm 1,023 MHz
BANDWIDTH	\pm 28 MHz
IMPEDANCE	Nom. 50 Ω
VSWR	Less than 2.0
CURRENT ABSORTION	10 \pm 1 mA at 2.7 V / 16 \pm 1 mA at 5.0 V
GAIN AMPLIFIER	18 \pm 1 mA at 2.7 V / 22 \pm 1 mA at 5.0 V
GAIN PATCH ANT.	2 dB
NOISE FIG.	1.7-2.1 dB
POWER SUPPLY	2.7 \div 5.1 V
WLAN+LTE ANTENNA PART:	1/4 I Antenna
POLARISATION	Vertical
FREQUENCY	1: 690 \div 790 MHz 2: 790 \div 960 MHz 3: 1710 \div 2700 MHz 4: 3300 \div 4900 MHz 5: 4900 \div 6425 MHz
IMPEDANCE	Nom. 50 Ω
VSWR	< 2.0
GAIN (dBi)	1: 5 ; 2: 5 ; 3: 6 ; 4: 8 ; 5: 7.5
EMMISSION	Omnidirectional
MAX POWER	800 Watt
DC GROUNDED	
MATERIALS Base:	Aluminium alloy EN AW-6082 with Surtec650
Radome:	ASA
Colour:	RAL7043 (Dark Grey)
DIMENSIONS	100x256x105 (width-lenght-height)
WEIGHT	1000 g
MOUNTING	Rooftop
PROTECTION CLASS	IP68
OPERATING TEMPERATURE	-45° - +85° C (GPS -30° - +80° C)
STORAGE TEMPERATURE	-45° - +85° C (GPS -30° - +80° C)
CABLE / CONNECTOR	GPS: mm 180 \pm 20 RG 316 / TNC (m) LTE+WLAN: N (f)



Electromagnetic Compatibility Tests

CEI EN 50155:2018

CEI EN 50121-3-2:2018

- EN 61000-4-2 (Electrostatic discharge immunity test)
- EN 61000-4-3 (Radiated, radio-frequency, electromagnetic field immunity test 80-2700 MHz)
- EN 61000-4-3 (Radiated, radio-frequency, electromagnetic field immunity test 5.1 -6 GHz)
- EN 61000-4-4 (Electrical fast transient/burst immunity test)
- EN 61000-4-6 (Immunity to conducted disturbances, induced by radio-frequency fields)

High-voltage-protection

DIN EN 50124 VDE 0115-107-1:2006-04

High-current-protection

DIN EN 50122-1 VDE 0115-3 2011-09

Insulation tests

- 13.4.9.2 Insulation measurement test
- 13.4.9.3 Voltage withstand test

Environmental tests

- EN 60068-2-1, Test A: Par. 13.4.4 – Low Temperature Start-up Test
- EN 60068-2-2, Test B: Par. 13.4.5 – Dry Heat Test
- EN 60068-2-30, Test Db: Par. 13.4.7 – Cyclic Damp Heat Test

Vibration and shock tests

- EN 61373: 2010, Clause 9 Par. 13.4.11.2 – Simulated Long-life Test
- EN 61373: 2010, Clause 10 Par. 13.4.11.3 – Shock Testing
- EN 61373: 2010, Clause 8 Par. 13.4.11.4 – Functional Random Vibration Test

