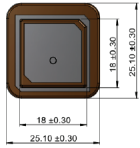
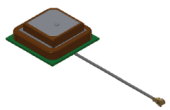


GNSS Antenna



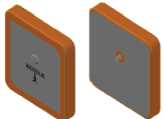
Band	Antenna	Part number	Description	Working Frequency	Dimension (mm)	Polarization	Impedance	Operating Temperature	Antenna Return loss and VSWR Data
GNSS	Internal	PA025Z 6D000	Ceramic Patch GPS, IRNSS Antenna(25x25x 8)	L1=1575 MHz L5=1176 MHz	25*25*8	RHCP	50 Ω	-40 °C~ +85°C	VSWR =1.8 max Gain at Zenith L1 =1.5 dB i typ L5 = 0.5 dB i typ



Band	Antenna	Part number	Description	Working Frequency	Dimension (mm)	Polarization	Impedance	Operating Temperature	Antenna Return loss and VSWR Data
GNSS	Internal	PA025Z6DH01	GPS+IRNSS, passive & u.FL	L1=1575 MHz L5=1176 MHz	Patch Antenna 25 x25 x 8 PCB 27x27x8	RHCP	50 Ω	-40 °C~ +85°C	VSWR =1.8 max Gain at Zenith L1 = -3.0 dB i typ L5 = -2.7 dB i typ



Band	Antenna	Part number	Description	Working Frequency	Dimension (mm)	Polarization	Impedance	Operating Temperature	Antenna Return loss and VSWR Data
GNSS	Internal	GBNBA-105E	GPS+Glonass, Active & u.FL	L1=1575 MHz L5=1176 MHz	25*25*4	RHCP	50 Ω	-40°C~ +85°C	1561MHz : -1dBi Typ..@zenith 1575.42MHZ:-2.5dBi Typ. @zenith 1602MHZ:-1.5 dBi Typ. @zenith



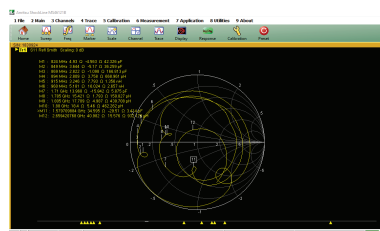
Band	Antenna	Part number	Description	Working Frequency	Dimension (mm)	Polarization	Impedance	Operating Temperature	Antenna Return loss and VSWR Data
GNSS	Internal	NEX2540	GPS+Glonass, Patch passive antenna	L1=1575 MHz L5=1176 MHz	25*25*4	RHCP	50 Ω	-40 °C~ +85°C	Return Loss @ F0 ≥10dB

NXM R&D - RF Tuning Services

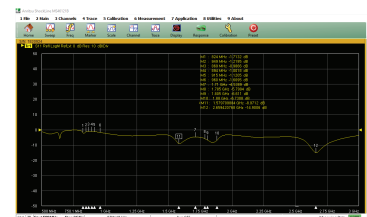
1. Antenna selection, placement, RF connector selection and counselling on PCB layout, Tuning solution for required band of interest.
2. Measurement and characterization of integrated antenna upto 6 GHz (Deliverables: S11 parameter file(.s1p), Return loss, VSWR and Smith chart along with detailed test report)
3. Bare PCB RF Feedline measurement upto 6GHz (Deliverables: S11 parameter file(.s1p), Return loss, VSWR and Smith chart along with detailed test report)



Test Set Up

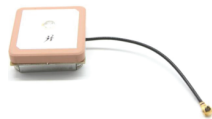


Smith Chart



Return loss

NEXCOMM Asia



Band	Antenna	Part number	Description	Working Frequency	Dimension (mm)	Polarization	Impedance	Operating Temperature	Antenna Return loss and VSWR Data
GNSS	Internal	NAPL-JGPGN052525	GPS+Glonass, Active antenna u.FL	L1=1575 MHz L5=1176 MHz	25*25*4	RHCP	50 Ω	-40 °C~ +85°C	Gain = 5dBi (Zenith) VSWR < 2.0

JK Electronics



Band	Antenna	Part number	Description	Working Frequency	Dimension (mm)	Polarization	Impedance	Operating Temperature	Antenna Return loss and VSWR Data
GNSS	Internal	DAD1176R-1575R2540H-1840HBD1-T	L1+L5 patch antenna	L1=1575 MHz L5=1176 MHz	25*25*8	RHCP	50 Ω	-40 °C~ +85°C	VSWR =1.8 max



Band	Antenna	Part number	Description	Working Frequency	Dimension (mm)	Polarization	Impedance	Operating Temperature	Antenna Return loss and VSWR Data
GNSS	External	GLBNA-210	GPS L1&L5	L1: 1561±2.046 MHz for Beidou L1: 1575.42±1.023 MHz for GPS/Galileo L1: 1602±8 MHz for GLONASS L5: 1176 ±10 MHz for IRNSS	40*38*16	RHCP	50 Ω	-40 °C~ +85°C	VSWR = 2.0 max 1561 MHz: 1 dBi Typ. @zenith 1575.42 MHz: 2 dBi Typ. @zenith 1602 MHz: 3.5 dBi Typ. @zenith 1176 MHz: 0 dBi Typ. @zenith



Band	Antenna	Part number	Description	Working Frequency	Dimension (mm)	Polarization	Impedance	Operating Temperature	Antenna Return loss and VSWR Data
GNSS	External	GNA-103A	GPS+Glonass External Active Antenna	L1=1575 MHz L5=1176 MHz	25*25*4	RHCP	50 Ω	-40 °C~ +85°C	VSWR = 2.0 Max 1575.42MHz:-0.5 dBi Typ. @zenith(ψ70mm Ground) 1602MHz:+2.5 dBi Typ. @zenith(ψ70mm Ground)

NEXCOMM Asia



Band	Antenna	Part number	Description	Working Frequency	Dimension (mm)	Polarization	Impedance	Operating Temperature	Antenna Return loss and VSWR Data
GNSS	External	NAPL-EJGPGN2525	GPS+Glonass External Active Antenna	L1=1575 MHz L5=1176 MHz	25*25*4	RHCP	50 Ω	-40 °C~ +85°C	VSWR = 2.0 Max Gain = 2dBic (Zenith)

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