

4.ntn QuarterStar

Dualband – Circular Polarization – High Gain

DRAFT

NTN

DATASHEET QW25-NTN-1001

4.ntn QuarterStar (QW25-NTN-1001)

The **Quarterstar** antenna is a compact, dual-band solution designed for L- and S-band NTN applications. Leveraging Quarterwave's advanced antenna technology, it delivers reliable satellite connectivity without requiring extra space. If you are looking for a high-performance antenna that seamlessly integrates into your device, the Quarterstar is the ideal choice for your NTN application.



APPLICATIONS

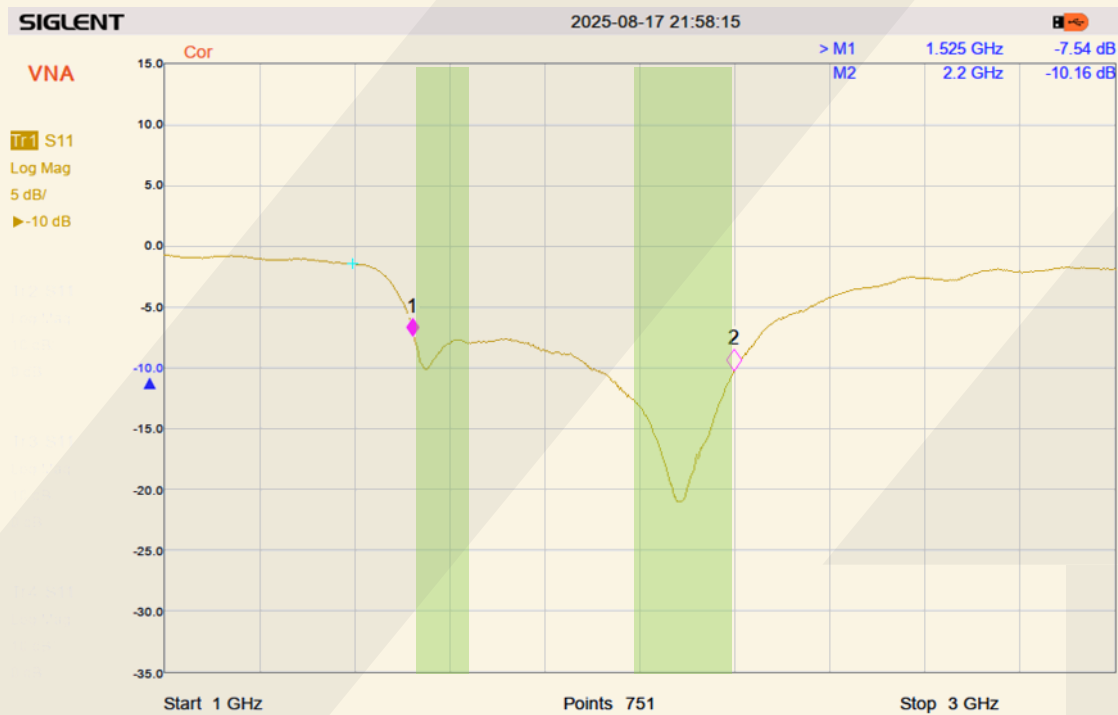
- Maritime and aviation satellite communication
- Pipeline and infrastructure surveillance
- Smart farming and precision agriculture
- Industrial IoT and machine monitoring
- Emergency and rescue communication
- Remote telemetry and sensor networks
- Asset tracking and fleet management

TECHNICAL SPECIFICATION

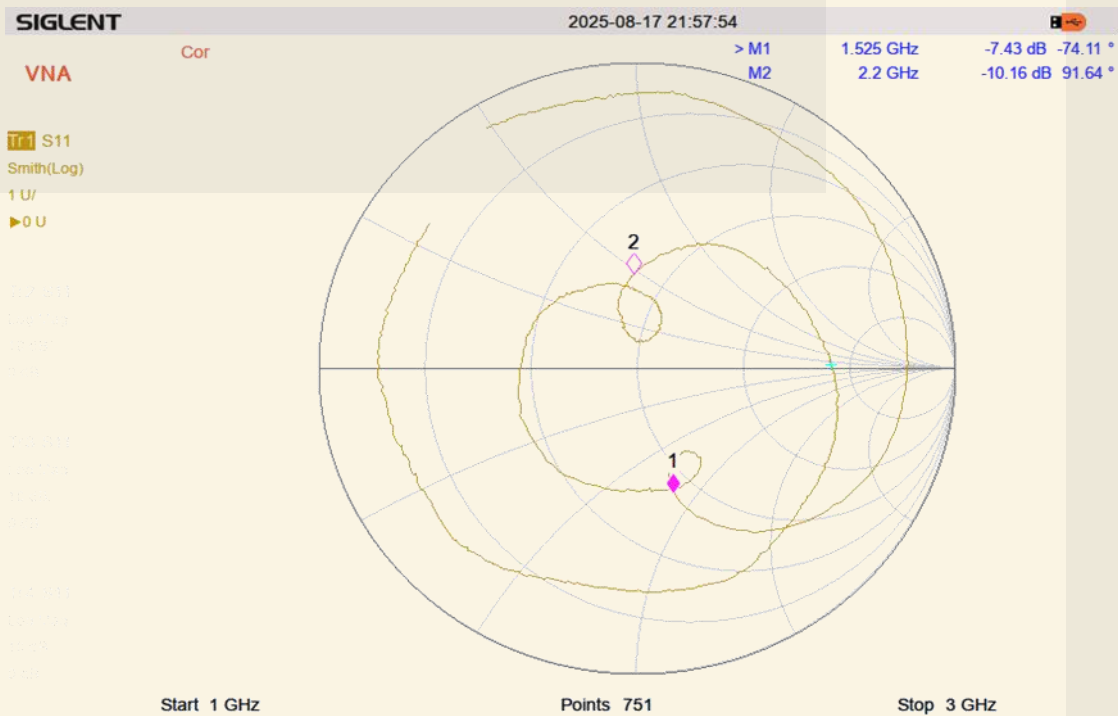
Electrical*	
Operating Frequency	1.525 – 2.200 GHz
Suported Bands	n255, n256
Peak Gain	8 dBi @ 1,6 GHz 6 dBi @ 2,1 GHz
Rad. Efficiency	>80 %
VSWR	< 2,5 :1
Polarization	RHCP / LHCP
Radiation Pattern	Directional
Impedance	50 Ohm
Mechanical	
Dimension	Ø90x21,5 mm
Weight Antenna	72g
Connector	SMB
Environmental	
Operating Temperature	-20...+95 °C
Relative Humidity	Non-condensing 65°C 95% RH

*Measured with Groundplane r = 100 mm

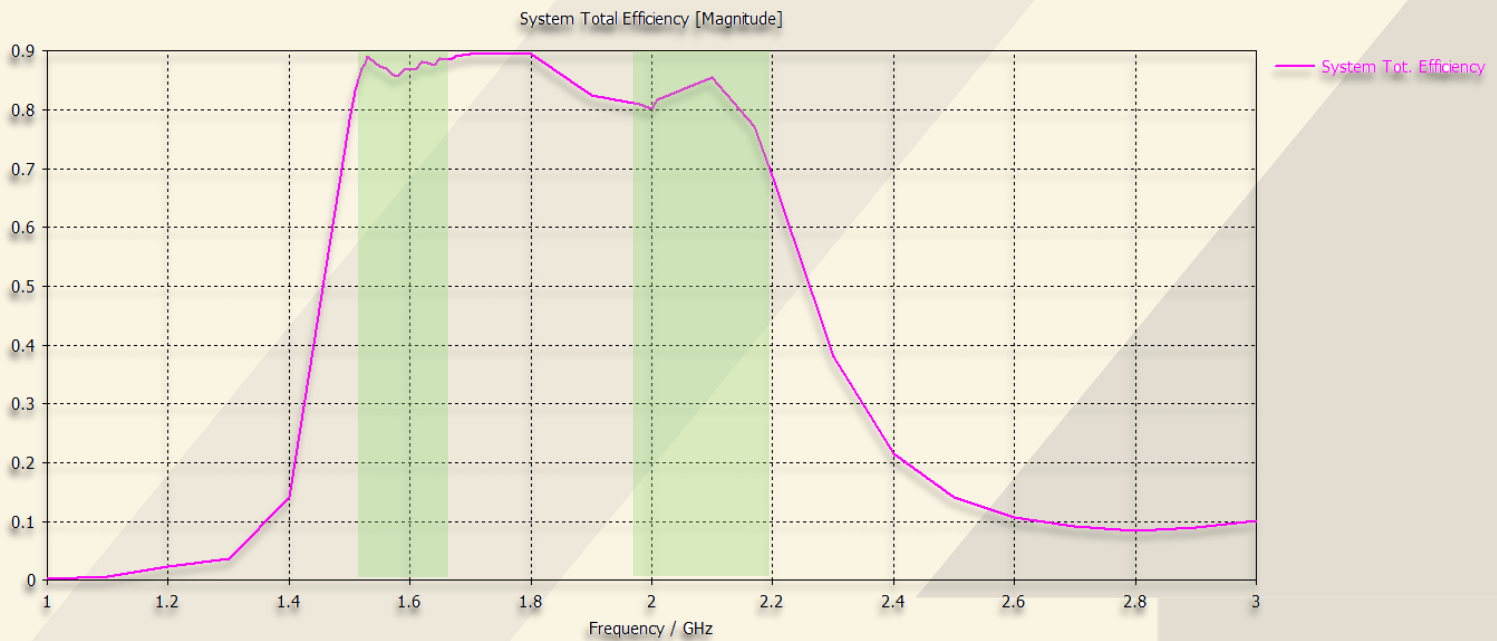
RETURN LOSS



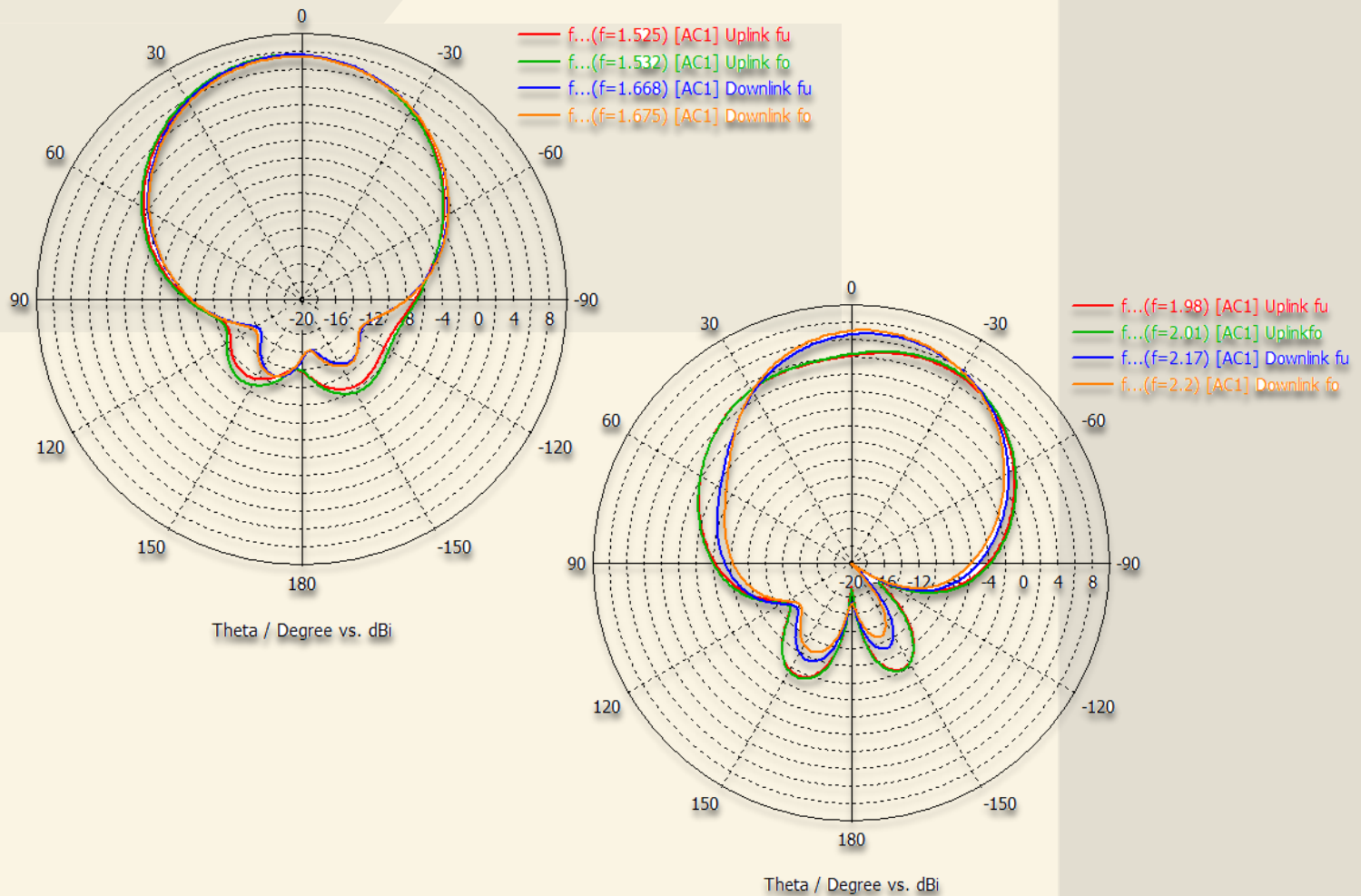
SMITH CHART



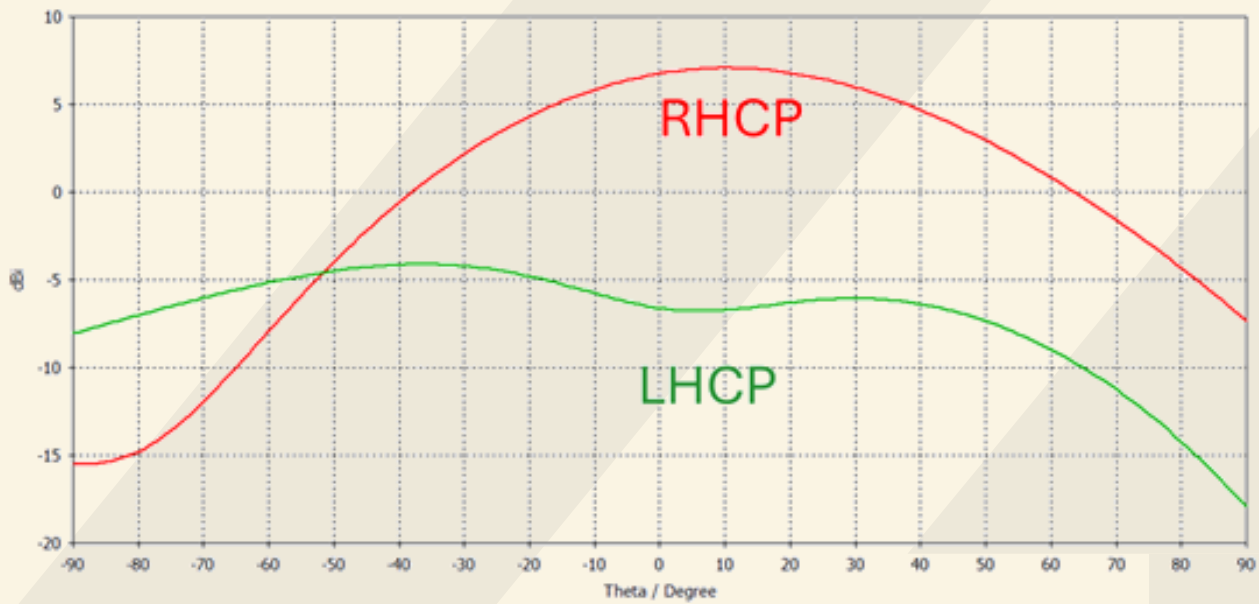
TOTAL EFFICIENCY



ANTENNA PATTERN



GAIN @ 1,6 GHz



GAIN @ 2,1 GHz

