Hypercable Active Programmable Planar Antenna

H and V Linear Polarization,or
RHCP and LHCP Circular Polarization
High Directivity – High front to back ratio.
Ultra wide band 10.7 to 12.7 Ghz

Planar Hypercable Antenna front view

Planar Hypercable Antenna side view

Specifications For the Active Planar Antenna 10.7 – 12.7 Ghz

1- ELECTRICAL

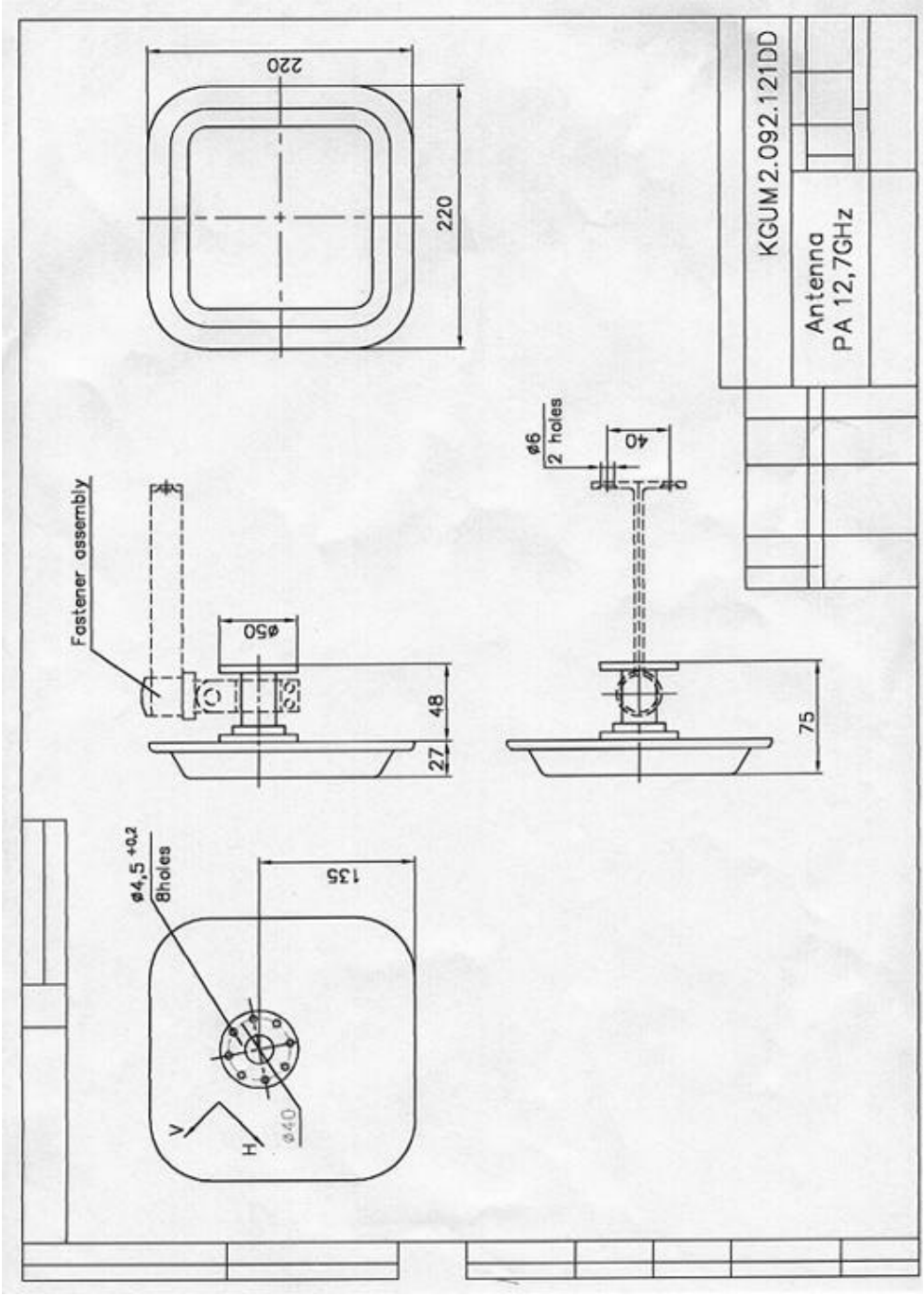
Frequency range:	**10.7 - 12.7 Ghz.**
Gain typical:	**24 dB.**
3 dB Beam width (AZ/El)	**7±1°**
Polarization:	**Dual H-V or Circular L and R.**
VSWR:	**1.6/1**
Cross Polarization:	**25 dB.**
Front to Back Ratio (from 90° to 270°)	**30 dB.**
Global gain with Hypercable programmable LNB	**50 dB to 80 dB**
Global gain with Hypercable programmable LNB and coaxial attenuators:	**10 dB to 41 dB or 33 to 63 dB.**

2- MECHANICAL

Dimensions: **220x220x75 inclusive Radome Mount and LNB**
Input RF Interface **Rounded C120** **Waveguide compliant with Hypercable attenuators.**
Back Plane: **Aluminium (coated) .**

2- Optional coaxial attenuator

Optional coaxial attenuators 17 dB or 29dB
The attenuators are inserted in the C120 Wave Guide in radio fields with levels more than 70 dBm


220
220
KGUM2.092.121DD
Antenna
PA 12,7GHz
ø6
2 holes
40
Fastener assembly
ø50
48
27
75
ø4,5 +0.2
8holes
135
V
H
ø40

Specification for Planar Antenna : 10.7-12.7 GHz

1. ELECTRICAL

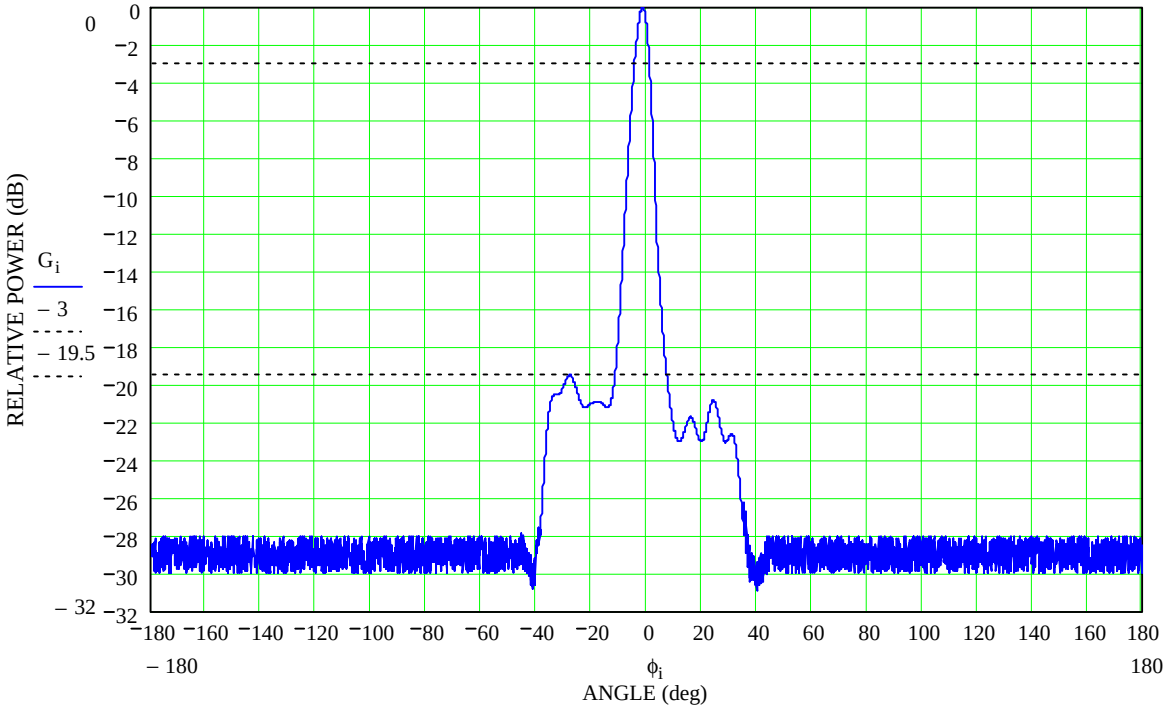
Frequency Range	10.7 GHz - 12.7 GHz
GAIN	24 dB
3 dB BEAM width (Az/El)	7±1 deg
Polarization	Dual
VSWR	1.5:1 max
Cross Polarization	25 dB
Front to Back Ratio (from 90 to 270)	30 dB
Sidelobes	ETSI EN3012-2 Range4, Cat. 2, Class 2

2. MECHANICAL

Dimensions (mm)	220x220x30 Inclusive of radome & connector
Input/RF Interface	WR42
Backplane	Aluminium(coated)
Flange	UG-595/U

Regulatory Compliance: ETSI EN 301 215 - TS1

Radiation Pattern at 11.2 (12.2) GHz (Vertical polarization)



Radiation Pattern at 11.2 (12.2) GHz (Horizontal polarization)