

**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

The information contained in this document is a compilation of technical product specifications, for information purposes. From time to time we make changes in our products to better serve our customers. Technical specifications subject to change at any time without notice.

## Specifications For the Active Planar Antenna 10.7 – 12.7 Ghz

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### 1- ELECTRICAL

Frequency range:	10.7 - 12.7 Ghz.
Gain typical:	24 dB.
3 dB Beam width (AZ/EI)	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.

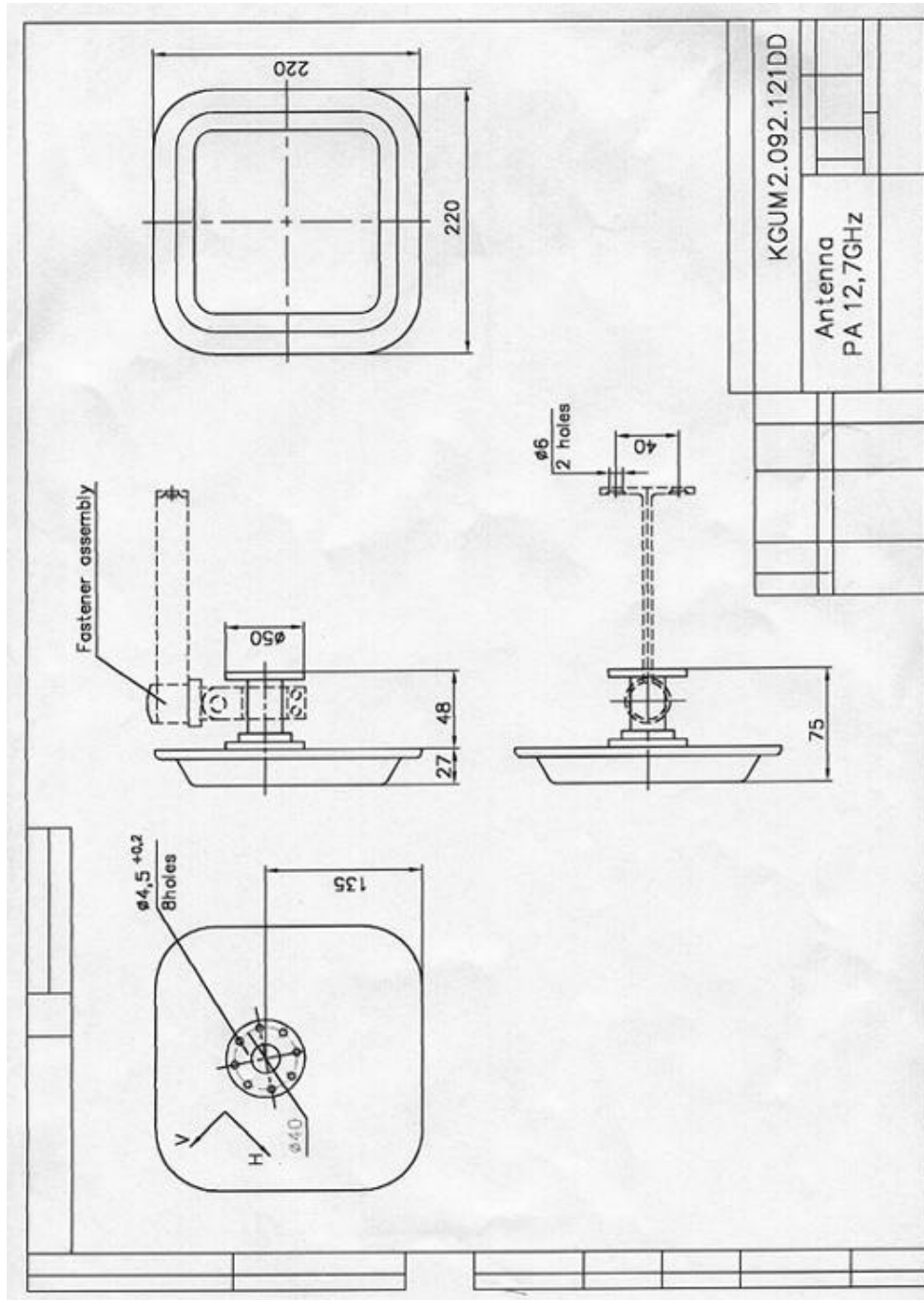
### 2- MECHANICAL

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



## *Specification for Planar Antenna : 10.7-12.7 GHz*

### 1. ELECTRICAL

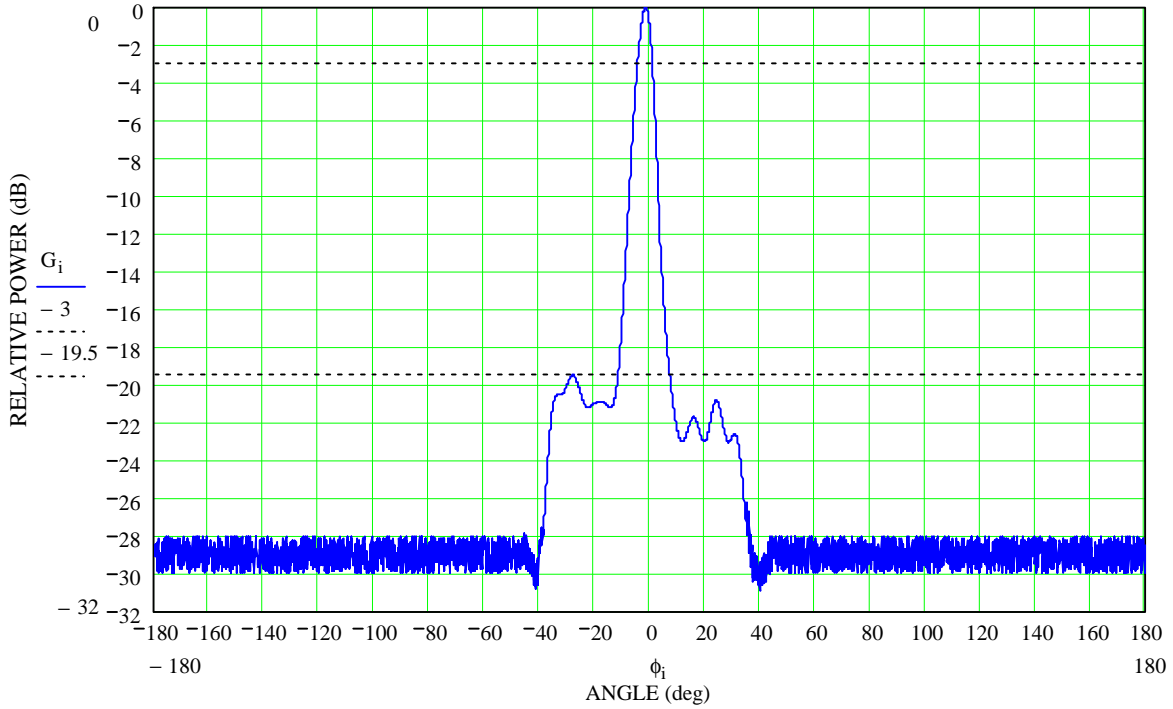
Frequency Range	10.7 GHz - 12.7 GHz
GAIN	24 dB
3 dB BEAM width (Az/EI)	7±1 deg
Polarization	Dual
VSWR	1.5:1 max
Cross Polarization	25 dB
Front to Back Ratio (from 90 to 270)	30 dB
Sidelobes	ETSI EN3012-2 Range4, Cat. 2, Class 2

### 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)

