

**RF HAMDESIGN
X-Band LINEAR HORN DISH FEED**

- Dish feed for dish with a F/D = 0.350.40
- Centre Frequency standard tuned to 10368 MHz
- Return loss >25dB (SWR<1.10)
- Nominal impedance: 50 ohm
- Max RF power SSB/CW : 100 W.
- Gain: -
- Beam width: 145 degree: -10db
- Connection: SMA-Female.



General

This feed is a design for prime focus dishes with a F/D of 0.35 – 0.40
A feed Mounting Bracket (CLX-02) is available to mount this feed in front of the RF HAMDESIGN dishes.

Frequency Adjusted:

This Horn Dish feed is tuned with best Return Loss included the placed waterproof Cover.
When the cover is removed Return Loss will be <10dB !
Tuning screws are sealed, warranty is void if the seal is broken !

Water tightness

The dish feed is mounted waterproof, but we do advise to drill a small hole, like 2...3mm in the bottom face down when mounted, this is not to drain the water but to allow the inside pressure to be equal to the outside atmospheric pressure, so you don't have condensation inside when the outside temperature drops, otherwise water will accumulate over time.

H or V Polarization:

If the SMA connector is pointing left or right after mounting, you will have horizontal polarization, when it's vertical, pointing downwards, polarization is vertical.

Dimensions: D=35mm H=35mm / Weight: 70 Gramm
Material: Aluminum CNC milled

Specification:

Freq.	Range	Gain dBd	H∠3dB	H∠10dB	V∠3dB	V∠10dB	Connector
10368 MHz	± 55MHz	5	63°	145°	57°	102°	SMA (f)

Frequency Adjust:

This Horn Dish feed is tuned with best Return Loss included the placed waterproof Cover.
When the cover is removed Return Loss will be <10dB ! Tuning screws are sealed, warranty is void if the seal is broken

Mounting the feed in front of the dish:

The feed can be mount at the back site of it's body, there are 3 holes at 25.20mm circle with screw thread M3. (3pcs M3x10 incl. delivery) If the dish feed is placed for horizontal polarisation, SMA connector point left or right, when vertical polarization is needed, SMA connector must placed downwards.

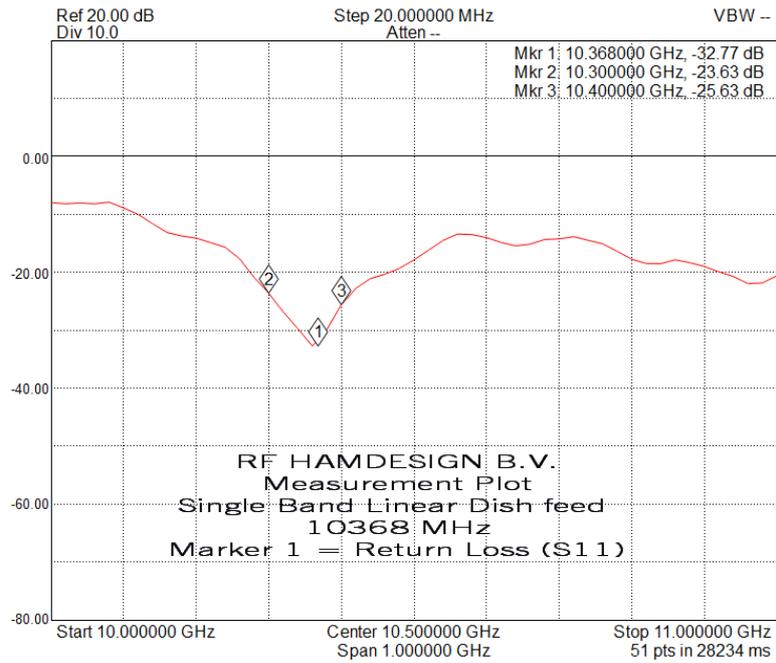
(Note: when ordered CLX-2 mounting bracket, the bracket has milled slots, it is possible now to place the feed H or V pol)

Attached:

Plot of dish feed Return Loss or VSWR

Measurement plot Network analyzer

Typical plot from the measurement



On request is this dish feed available tuned to other frequencies. (Range from 9.7 to 10.8 GHz)



CLX-02 Dish Feed Mounting Bracket
(Fits to all RF HAMDESIGN Mesh Dishes and 3-leg dish feed support)