

# 2.6cm prime focus receiver (11700 MHz)

This is an uncooled single channel narrow band system for holography.

## Calibration Information

Frequency [GHz]	Channel	Polarisation	Tcal [K]	Tsys [K]	Sensitivity [K/Jy]	SEFD [Jy]	Aperture Eff. [%]	TMB/S [K/Jy]	Main Beam Eff. [%]	FWHM [arcsec]	Last update
11.7	A	linear	25	120	1.23					67	Nov 2018
normalized Gain curve ( $G = A0 + A1 \cdot Elv + A2 \cdot Elv^2$ )							Observed in		confirmed		
A0 = 1.0		A1 = 0.0		A2 = 0.0		May 2011					

### Comments:

- None

## Version description for OBSINP

RX Name	Wavelength [cm]	Frequency (center) [GHz]	Nr. of Horns
<b>P26mm 4-Box Hologr.(11.7 GHz)</b>	2.6	11.7	1
<b>Version:</b>	<b>Comment</b>		
1. Astro-Version 11.7 GHz (BW: 100 MHz)	Narrow Band Continuum		
2. Holographie 11.698 GHz (BW: 100 MHz)	Holography version adds several dB attenuation		
<b>Horn offsets [arcsec]</b>	-810.6, 970.8		

## Channel assignment in the MBFITS data files

Note that the narrow line and VLBA IF channels are usually only available when the specific line version of the receiver was selected. In addition for most receivers with narrow line channels the cables at the patch board need to be connected by the receiver group.

To select different channel numbers in OBSINP, the online plot, or the toolbox the numbers have to be specified like c(1)+c(2) to add channel 1 and 2. E.g. channel 1 and 2 contain the LCP and RCP broadband channels, then "OnlPlot pen='c(1)+c(2)'" or "toolbox use='c(1)+c(2)'" will select these channels. In OBSINP the pen can be directly specified in the receiver selection menu.

Abbreviations:

SB: narrow band channel (Schmalband-Kanal), 100 MHz band width

BB: digital broad band channel (Breitband-Kanal), band width varies for different receivers

VLBA: VLBA IF, 500 MHz band width

BW: band width

TP: total power

### **P26mm 4-Box Hologr.(11.7 GHz)**

Channel	IF	Pol.	Comment
1	SB	LCP	TP A

## **Tcal and Tsys measurements**

TODO

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