1.0cm primary focus receiver (26500-36700 MHz)

This receiver was build for spectroscopic observations. It has a linearly polarized feed.

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
27.0	A	linear	7.2	68	0.94	71	34	1.8	54	30.5	Mar 2010
30.0	A	linear	8.0	70	0.85	82	31	1.6	53	29.0	Mar 2010
34.0	A	linear	12.0	75	0.86	86	30	1.5	61	25.0	Mar 2010
36.3	A	linear	12.5	79	0.85	93	30	1.8	48	23.0	Aug 2007

normalized Gain curve (G = A0 + A1·Elv + A2·Elv2)			Observed in	confirmed
A0=0.81500	A1=1.0624E-2	A2=-1.5237E-4	Aug 2007	

Comments:

- Typical zenith opacities range from 0.05 to 0.2 depending on the sky frequency and weather conditions.

Version description for OBSINP

RX Name	Wavelength [cm]	Frequency (center) [GHz]	Nr. of Horns
P10mm 4-Box (26,5-36,7 GHz)	1.0	26.5-36.7	1
Version:	**Comment**		
1. Cont./Line: 26,5-29,1 GHz (BW: 500 MHz)	Continuum and spectroscopy 1st freq. range		
2. Cont./Line: 28,52-32,7 GHz (BW: 500 MHz)	Continuum and spectroscopy 2nd freq. range		
3. Cont./Line: 32,3-36,7 GHz (BW: 500 MHz)	Continuum and spectroscopy 3rd freq. range		
4. Pulsar (BW: 500 MHz)	Pulsar version 1st freq. range (26.5-29.1 GHz)		
Horn offsets [arcsec]	-972.8, 1086.6		

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

1.0cm PFK (Multi-RX-Box I)			
Channel	**IF**	**Pol.**	**Comment**
1	BB	linear	TP A
2	VLBA	linear	TP A

Tcal and Tsys measurements