4.5cm broad band C/X secondary focus receiver (4000-9300 MHz)

This is a broad-band receiver with two orthogonal linear polarizations (at a 45°-angle with the horizon). The system is still under test, but could be used on a "shared-risk" basis.

Calibration Information

| Frequency [GHz] | Channel | Polarisation | Tcal [K] | Tsys [K] | Sensitivity [K/Jy] | SEFD [Jy] | Aperture Eff. [%] | | Main Beam Eff. [%] | FWHM [arcsec] | Last update |
|---|---------|--------------|-------------|-------------|-----------------------|--------------|----------------------|-----|-----------------------------|------------------|----------------|
| 6.668 | A | lin | 4.5 | 27 | 1.54 | 17 | 54 | 2.2 | 63 | 102 | Nov 2016 |
| 6.668 | В | lin | 4.1 | 28 | 1.54 | 18 | 54 | 2.2 | 63 | 102 | Nov 2016 |
| normalized Gain curve (G = A0 + A1·Elv + A2·Elv2) Observed in confirmed | | | | | | | | | | | |

A0 = 0.9928 A1 = 4.212E-4 A2 = -6.158E-6 Jun 2016

Comments:

• The gain curve was corrected for opacity (though it is small, < 0.02 throughout the band).

Version description for OBSINP

Channel assignment in the MBFITS data files

Tcal and Tsys measurements





Last update: 2017/02/28 10:36