| Quantity | Reference Frequency [GHz][a1] | | | | | | Notes |
|---|---|---|---|---|---|---|---|
| | 100 | 143 | 217 | 353 | 545 | 857 | |
| Number of bolometers | 8 | 11 | 12 | 12 | 3 | 4 | a2 |
| Effective beam solid angle $\Omega$ [arcmin$^2$] | 106.22 | 60.44 | 28.57 | 27.69 | 26.44 | 24.37 | b1 |
| Error in solid angle $\sigma_\Omega$ [arcmin$^2$] | 0.14 | 0.04 | 0.04 | 0.02 | 0.02 | 0.02 | b2 |
| Spatial variation (rms) $\Delta\Omega$ [arcmin$^2$] | 0.20 | 0.20 | 0.19 | 0.20 | 0.21 | 0.12 | b3 |
| Effective beam FWHM$_1$ [arcmin] | 9.68 | 7.30 | 5.02 | 4.94 | 4.83 | 4.64 | b4 |
| Effective beam FWHM$_2$ [arcmin] | 9.66 | 7.22 | 4.90 | 4.92 | 4.67 | 4.22 | b5 |
| Effective beam ellipticity $\epsilon$ | 1.186 | 1.040 | 1.169 | 1.166 | 1.137 | 1.336 | b6 |
| Variation (rms) of the ellipticity $\Delta\epsilon$ | 0.024 | 0.009 | 0.029 | 0.039 | 0.061 | 0.125 | b7 |
| $C_\ell^{TT}$ expected for full-mission map sensitivity [$10^{-4}\,\mu\mathrm{K_{CMB}}^2$] | 1.93 | 0.48 | 1.11 | 13.0 | | | c1 |
| [$10^{-4}$kJy$^2$.sr] | | | | | 1.38 | 1.21 | c1 |
| $C_\ell^{TT}$ map sensitivity from the 2018 release [$10^{-4}\,\mu\mathrm{K_{CMB}}^2$] | 1.52 | 0.36 | 0.78 | 11.6 | | | c2 |
| [$10^{-4}$kJy$^2$.sr] | | | | | 2.9–8 | 2.7–8 | c3 |
| $C_\ell^{EE}$ map expected sensitivity from TOI white noise [$10^{-4}\,\mu\mathrm{K_{CMB}}^2$] | 5.01 | 2.70 | 2.77 | 51.1 | | | c1 |
| $C_\ell^{EE}$ map sensitivity from the 2018 release [$10^{-4}\,\mu\mathrm{K_{CMB}}^2$] | 2.94 | 1.61 | 3.25 | 7.0 | | | c2 |
| Dipole absolute calibration accuracy [%] | 0.008 | 0.021 | 0.028 | 0.024 | $\simeq 1$ | | d1 |
| Planet submm intercalibration accuracy [%] | | | | | | $\simeq 3$ | d2 |
| Intensity transfer function uncertainty ($700 < \ell < 1000$) [%] | Ref. | 0.12 | 0.36 | 0.78 | 4.3 | | d3 |
| Polarization calibration accuracy [%] | 0.7 | -1.7 | 1.9 | | | | d4 |
| Galactic emission zero level uncertainty [ MJy sr$^{-1}$] | 0.0008 | 0.0010 | 0.0024 | 0.0067 | 0.0165 | 0.0147 | e1 |
| CIB monopole assumption [ MJy sr$^{-1}$] | 0.0030 | 0.0079 | 0.033 | 0.13 | 0.35 | 0.64 | e2 |
| CIB monopole uncertainty [%] | 100 | 100 | 40 | 20 | 20 | 20 | e3 |
| Zodiacal emission monopole level [$\mu\mathrm{K_{CMB}}$] | 0.43 | 0.94 | 3.8 | 34 | | | e4 |
| [ MJy sr$^{-1}$] | | | | | 0.04 | 0.12 | e4 |

[a1] Channel-map reference frequency, and channel identifier.
[a2] Number of bolometers whose data were used in producing the channel map. Note that, at 353 GHz, only 8 PSBs are used for polarization maps.
[b1] Mean value over bolometers at the same frequency.
[b2] As given by simulations.
[b3] Variation (rms) of the solid angle across the sky.
[b4] FWHM of the Gaussian whose solid angle is equivalent to that of the effective beams.
[b5] Mean FWHM of the elliptical Gaussian fit.
[b6] Ratio of the major to minor axis of the best-fit Gaussian averaged over the full sky.
[b7] Variability (rms) on the sky.
[c1] Estimate of the $C_\ell$ map noise for the full mission, derived from the TOI white noise (see Sect. 2.1), (table 5 of Planck Collaboration VII 2016).
[c2] Estimate of the $C_\ell$ map noise for the full mission, derived from the odd-even ring null-test noise (Fig. 17, multipole range $\ell = 200$–1000).
[c3] Estimate of the $C_\ell$ map noise for the full mission, derived from the odd-even ring null-test noise (Fig. 13, multipole range $\ell = 200$–2000).
[d1] Absolute calibration accuracy from simulations with the Solar dipole (Table 7). The 545-GHz channel retains the 2015 planet calibration, and the accuracy is calculated a posteriori on the Solar dipole.
[d2] The 857 GHz channel retains the 2015 planet calibration, and the accuracy is calculated a posteriori using the planet model (Planck Collaboration LII 2017) and the 545-GHz data.
[d3] Derived upper limits of the transfer function on the first three acoustic peaks (Table 8).
[d4] Polarization accuracy dominated by the polarization efficiency errors (Table 9).
[e1] The monopoles of the maps are built with a Galactic dust model extrapolated to a zero-level for H I. Uncertainties are discussed in Planck Collaboration VIII (2014) (table 5).
[e2] The monopole of the Béthermin et al. (2012) CIB model (table 6 of Planck Collaboration VIII (2016)).
[e3] The CIB uncertainties are estimated combining the absolute measurements of FIRAS (Puget et al. 1996; Fixsen et al. 1998) and the anisotropies from Planck HFI (Planck Collaboration XXX 2014) assuming the same SED for the absolute value and the anisotropies.
[e4] Monopole contribution of the Zodiacal emission adjusted for high Galatic and ecliptic latitudes (table 6 of Planck Collaboration VIII 2016).