

BLUE ORIGIN

| Ptmax = Pr + 20*log10(f) + 20*log10(30+d) - 27.55 | | | | |
|---|-----------|--------------|---|--|
| Name | Value | Unit | Description | |
| Pr | -140 | dBm | received power @ 30 meters from building | |
| f | 1575.42 | MHz | center frequency | |
| d | 10.1 | m | distance from radiator to closest exterior wall | |
| Ptmax | -71.54 | dBm | maximum permissible EIRP | |
| Ptmax | 70.16 | pW | maximum permissible EIRP | |
| | | | | |
| | Gain (dB) | Signal (dBm) | Description | Details |
| | | -126 | Received EIRP | IS-GPS-200H, table 3-VA, L1 C/A, +2.5 margin |
| | 3.0 | -123.0 | Receive antenna | AeroAntenna AT575-62W-TNCF-000-RG-26-NM |
| | 26 | -97.0 | Built-in receive preamp | see previous line |
| | -10.2 | -107.2 | Coax to amplifier | 200 feet of LMR-400 |
| | 32 | -75.2 | Repeater amplifier | GPS Source A11 fixed gain (min 30, typ 32, max 33) |
| | 3.0 | -72.2 | Re-rad transmit antenna | GPS Source L1P |