



A114 40dB Amplificateur:

Features

- Excellent Gain $G > 40\text{dB}$
- Filtered option available
- Passes GPS
- 0dB to 40dB variable gain option available

Model supplied

A114T-SF (In-line Amplifier 40dB, tiny housing, SMA female)

Other models on request.



| RF Connector Options: | | |
|-----------------------|--------------------------|-------------|
| Connector Options | Connector Type | Limitations |
| | N (Male & Female) | |
| | SMA (Male & Female) | |
| | TNC (Male & Female) | |
| Housing Options: | | |
| Housings | Housing Type | Limitations |
| | Mini, | None |
| | Tiny | SMA Only |
| Port Options: | | |
| Pass DC | OUT Port Passes DC to IN | |
| DC Blocked | Blocks DC to IN Port | |

| Parameter | Conditions | Min | Typ | Max | Units |
|----------------------------------|--|-----|------|-------|-------|
| Freq. Range | IN – OUT, IN/OUT-50Ω | 1.2 | | 1.7 | GHz |
| In/Out Imped. | IN, OUT | | 50 | | Ω |
| Gain ⁽¹⁾ | IN – OUT, IN/OUT-50Ω | | | | |
| 1227MHz | | 38 | 40 | 42 | dB |
| 1575MHz | | 38 | 40 | 42 | |
| Variable Gain Opt ⁽¹⁾ | IN – OUT, IN/OUT-50Ω | | | | |
| 1227MHz: | | | | | dB |
| Max Gain: | | 37 | 38 | 39 | |
| Min Gain: | | -1 | 0 | 1 | |
| 1575MHz: | | | | | |
| Max Gain: | | 37 | 38 | 39 | |
| Min Gain: | | -1 | 0 | 1 | |
| Filtered Opt ⁽¹⁾⁽²⁾ | IN – OUT, IN/OUT-50Ω | | | | |
| 1227MHz: | | | | 0 | dB |
| 1575MHz: | | 37 | 38.5 | 39 | |
| Reject. (-50MHz) | | -30 | | | |
| Reject. (+50MHz) | | -42 | | | |
| Input 1dB Comp. | IN – OUT, IN/OUT-50Ω | -41 | | | dBm |
| Input IP ₃ | IN – OUT, IN/OUT-50Ω | -33 | | | dBm |
| Input SWR ⁽¹⁾ | OUT Port - 50Ω | | | 2.5:1 | - |
| Output SWR ⁽¹⁾ | IN Port - 50Ω | | | 2.5:1 | - |
| Noise Figure ⁽³⁾ | IN – OUT, IN/OUT-50Ω | | | 2.0 | dB |
| Gain Flatness | L1 – L2 , IN – OUT, IN/OUT-50Ω | | | 3 | dB |
| Group Delay Flatness | T _{d,max} – T _{d,min} , IN – OUT | | | 1 | ns |
| Reverse Isolation | OUT – IN | 40 | | | dB |
| DC IN | DC Input on IN/OUT port | 3 | | 16 | VDC |
| Device Current | Current Consumption of device, excludes Ant. Cur. | | | 20 | mA |
| Ant/Thru Current | Non-Powered Configuration, DC Input on OUT port | | | 250 | mA |
| Max RF Input | Max RF input without damage | | | 10 | dBm |



Performance data :

