The components needed

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Id | Designator | Package | Quantity | Designation |
| 1 | J1 | 73100-0114 | 1 | 73100-0114 |
| 2 | L1 | L\_0805\_2012Metric\_Pad1.05x1.20mm\_HandSolder | 1 | 47.37p |
| 3 | U2 | LTC5532ES6-PBF | 1 | RF |
| 4 | U1 | HMC8412LP2FE | 1 | LNA |
| 5 | R5 | R\_0805\_2012Metric\_Pad1.20x1.40mm\_HandSolder | 1 | 1k |
| 6 | R4 | 3314J-1-103E | 1 | 10k |
| 7 | R3,R2 | R\_0805\_2012Metric\_Pad1.20x1.40mm\_HandSolder | 2 | 49.9 |
| 8 | R1 | R\_0805\_2012Metric\_Pad1.20x1.40mm\_HandSolder | 1 | 1.47k |
| 9 | C8,C2,C1 | C\_0805\_2012Metric\_Pad1.18x1.45mm\_HandSolder | 3 | 0.1u |
| 10 | C7,C3 | C\_0805\_2012Metric\_Pad1.18x1.45mm\_HandSolder | 2 | 100p |
| 11 | C6 | C\_0805\_2012Metric\_Pad1.18x1.45mm\_HandSolder | 1 | 12p |
| 12 | C5 | C\_0805\_2012Metric\_Pad1.18x1.45mm\_HandSolder | 1 | 33p |
| 13 | C4 | C\_0805\_2012Metric\_Pad1.18x1.45mm\_HandSolder | 1 | 15.92pF |

The components source

|  |  |  |
| --- | --- | --- |
| Id | Designator |  |
| 1 | J1 | <https://eu.mouser.com/ProductDetail/Molex/73100-0114?qs=%2Fha2pyFaduiSCzf9KnJGSPzkolRmmWb3ByUUx4qAoaM%3D> |
| 2 | L1 | Not available |
| 3 | U2 | <https://eu.mouser.com/ProductDetail/Analog-Devices/LTC5532ES6PBF?qs=hVkxg5c3xu%2Fk1Y8aTwHhEA%3D%3D> |
| 4 | U1 | <https://eu.mouser.com/ProductDetail/Analog-Devices/HMC8412LP2FE?qs=sPbYRqrBIVkvOqkuV1kS9w%3D%3D> |
| 5 | R5 | <https://eu.mouser.com/ProductDetail/Welwyn-Components-TT-Electronics/GWCR0805-1K0FT5?qs=sGAEpiMZZMukHu%252BjC5l7YfEq5W2hefEsJTobKc3Y2K4%3D> |
| 6 | R4 | <https://eu.mouser.com/ProductDetail/Bourns/3314J-1-103E?qs=%2Fha2pyFadugflU%252BpZbHWgeUSf5JFRbkbYcWaWDN%2FZrfb98IS%252Bk62%252Bg%3D%3D> |
| 7 | R3,R2 | <https://eu.mouser.com/ProductDetail/Panasonic/ERJ-6RED49R9V?qs=sGAEpiMZZMtlubZbdhIBIAseYdsNAjdpEvwty0GNcsQ%3D> |
| 8 | R1 | <https://eu.mouser.com/ProductDetail/Vishay-Dale/CRCW08051R47FKEA?qs=sGAEpiMZZMtlubZbdhIBIOKuJXvf4ORCwV%252BZivC5GZY%3D> |
| 9 | C8,C2,C1 | <https://eu.mouser.com/ProductDetail/KEMET/C0805X104J1RACAUTO?qs=sGAEpiMZZMukHu%252BjC5l7YUo%252BAyevRO7%252BnUgAAPk7TLU%3D> |
| 10 | C7,C3 | <https://eu.mouser.com/ProductDetail/KEMET/C0805X101F8HACAUTO?qs=sGAEpiMZZMsh%252B1woXyUXj1Qqd7OcgYbMbrCT38yvBoM%3D> |
| 11 | C6 | <https://eu.mouser.com/ProductDetail/KEMET/C0805X120J5GACAUTO?qs=sGAEpiMZZMsh%252B1woXyUXj0YqoHYn8JRTcJnAhn1bH3Q%3D> |
| 12 | C5 | <https://eu.mouser.com/ProductDetail/KEMET/C0805C330J3HACTU?qs=sGAEpiMZZMsh%252B1woXyUXj2Bz7Q4aUyX%2FfszqZOFjLIo%3D> |
| 13 | C4 | <https://eu.mouser.com/ProductDetail/KEMET/C0805C160M8HACTU?qs=W0yvOO0ixfGz%252BsHqbp2CPw%3D%3D> |

The components price

|  |  |  |  |
| --- | --- | --- | --- |
| Id | Designator | Quantity | Price |
| 1 | J1 | 1 | 4,82 € |
| 2 | L1 | 1 | Not available |
| 3 | U2 | 1 | 3,37 € |
| 4 | U1 | 1 | 47,30 € |
| 5 | R5 | 1 | 0,17 € |
| 6 | R4 | 1 | 1,60 € |
| 7 | R3,R2 | 2 | 0,14 € |
| 8 | R1 | 1 | 0,10 € |
| 9 | C8,C2,C1 | 3 | 0,53 € |
| 10 | C7,C3 | 2 | 0,37 € |
| 11 | C6 | 1 | 0,32 € |
| 12 | C5 | 1 | 0,14 € |
| 13 | C4 | 1 | 0,14 € |
| Total |  |  | 60.57£ |

* Some of the filter components is not available.

Here some alternatives filters we can use:

1. <https://eu.mouser.com/ProductDetail/TDK/DEA255787BT-2044A1?qs=fR3RxBVkcwmSy9sF3%252BA49A%3D%3D>
2. <https://eu.mouser.com/ProductDetail/Knowles-Dielectric-Labs/B060NC5S?qs=4RNVM7rx6luX4GmYIEFU%2FQ%3D%3D>