

High pass filter
This is used to remove AM interference from broadcast stations
Fbw = [2.8Mhz]

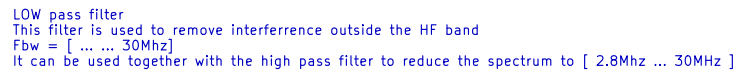
Sheet: /highPass/
File: highPass.kicad_sch

Title:

Size: A4
KiCad E.D.A. kicad 6.0.2+dfsg-1

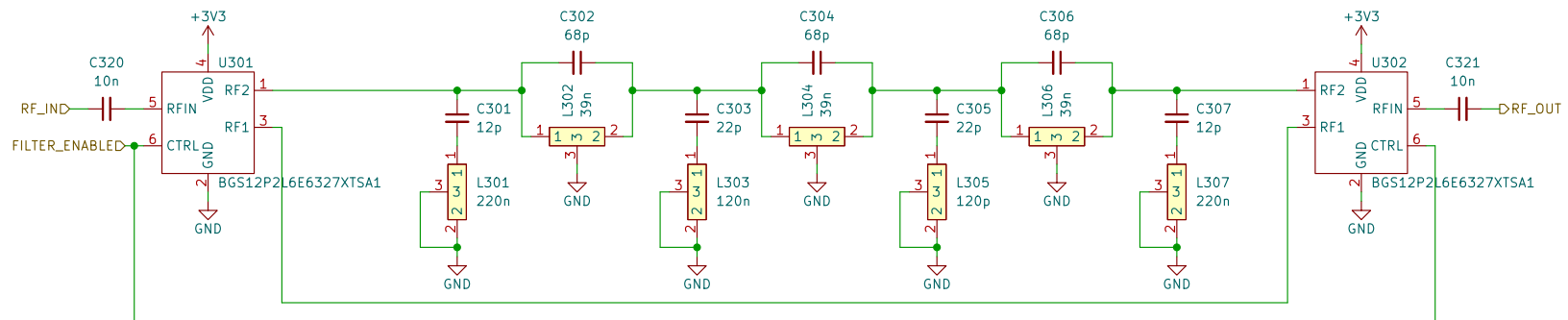
Date:

Rev:
Id: 2/8



Title:	
Size: A4	Date:
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Rev: 3/8



FM notch filter
 Use this to reduce FM broadcast band interference.
 It can be used to improve aircraft band reception, or NOAA / METEOR
 Fbw = [83MHz ... 114MHz]

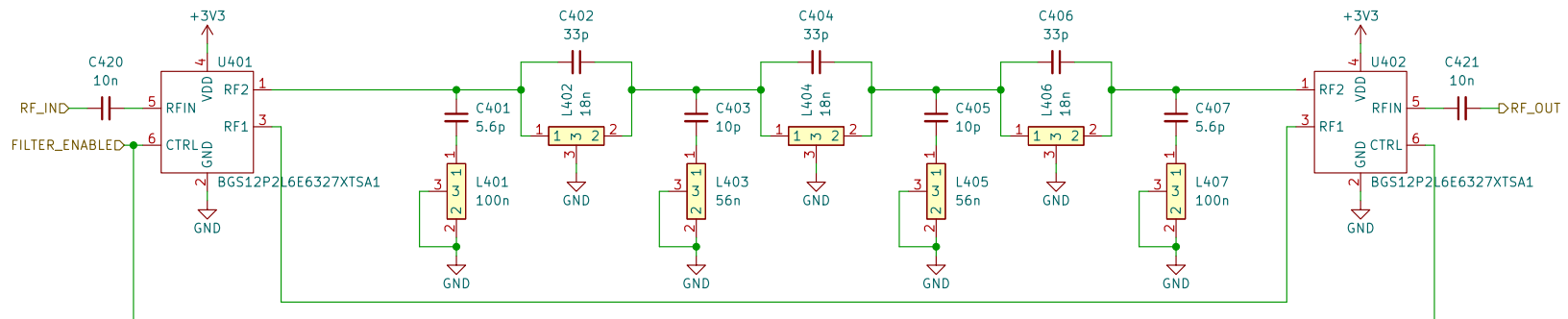
Sheet: /bandStopFM/
 File: bandStopFM.kicad_sch

Title:

Size: A4
 KiCad E.D.A. kicad 6.0.2+dfsg-1

Date:

Rev:
 Id: 4/8



DAB notch filter
This will reduce interference from the digital audio broadcast band
Fbw = [174Mhz ... 240Mhz]

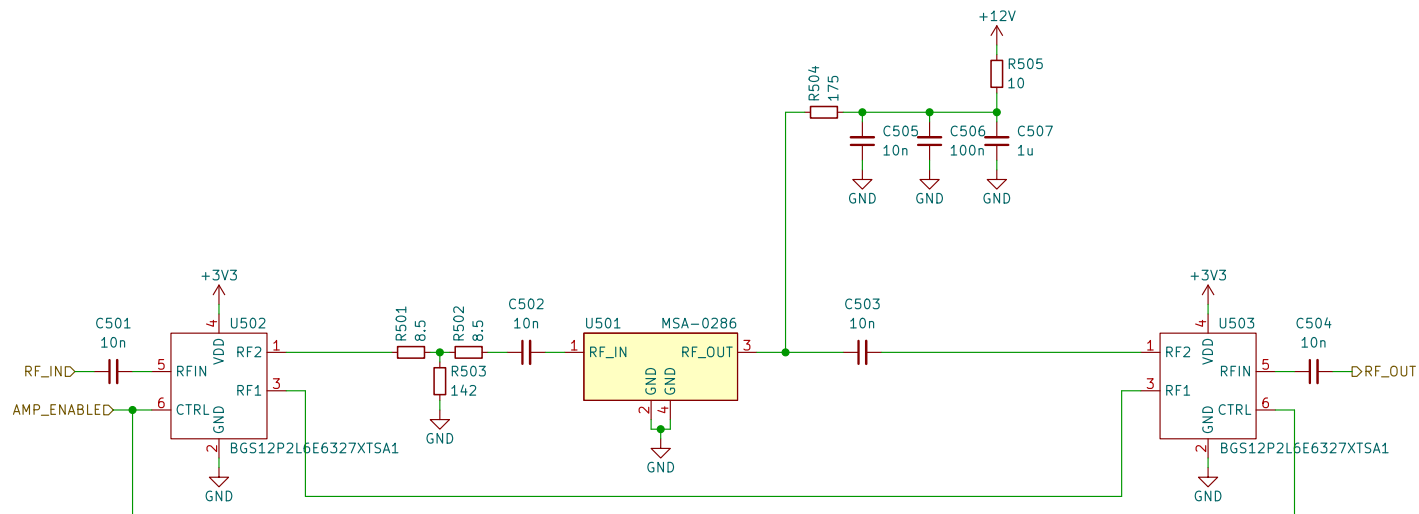
Sheet: /bandStopDAB/
File: bandStopDAB.kicad_sch

Title:

Size: A4
KiCad E.D.A. kicad 6.0.2+dfsg-1

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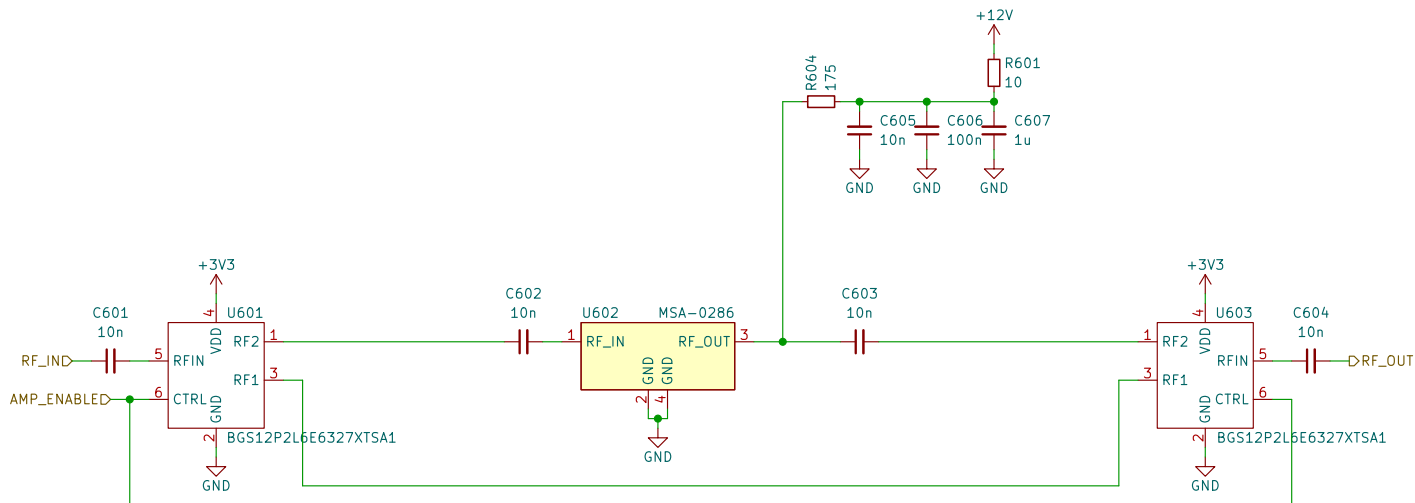


BIAS: 5V 40mA
 $R504 = (12 - 5) / 0.040$
 $R504 = 175$
 $Gloss = 20 \lg[(2 * R504 + 50) / (2 * R504)]$
 $Gloss = 1.15 \text{db}$ (because there's no RF choke following R504)
 $GAIN = (-3 + 12 - 1.15)$
 $GAIN = 7.85 \text{db}$

Sheet: /gain/
 File: gain.kicad_sch

Title:

Size: A4	Date:	Rev:
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BIAS: 5V 40mA
 $R504 = (12 - 5) / 0.040$
 $R504 = 175$
 $Gloss = 20 \lg[(2 * R504 + 50) / (2 * R504)]$
 $Gloss = 1.15 \text{db}$ (because there's no rf choke after R604)
 $GAIN = (12 - 1.15)$
 $GAIN = 10.85 \text{db}$

Sheet: /Second Gain/
 File: secGain.kicad_sch

Title:

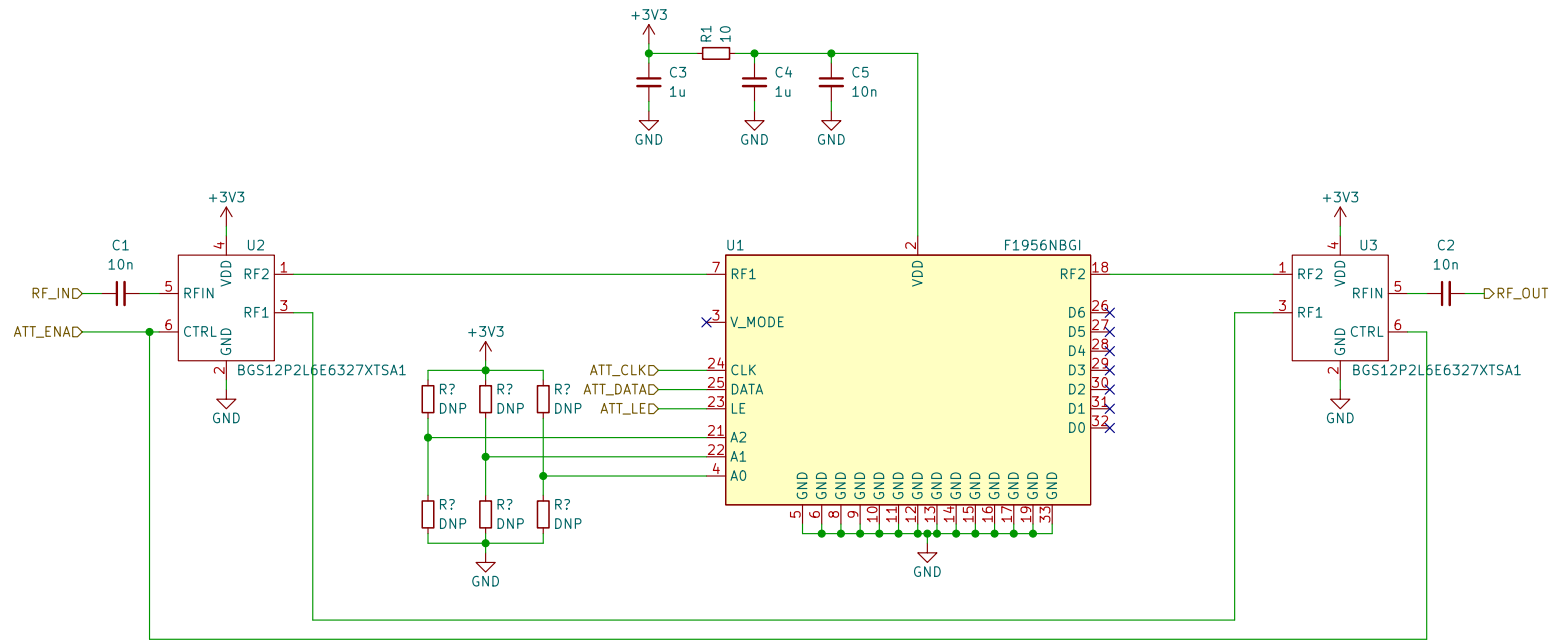
Size: A4

Date:

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V_MODE = NC
 => SERIAL MODE
 A[2..0] = NC
 => A[2..0]=[000]
 D[6..0] = NC
 => D[6..0]=[1111111]

Variable attenuator block
 31.75dB Range, 0.25dB steps
 by default attenuation is set to MAX

Sheet: /Attenuator/
 File: attenuator.kicad_sch

Title:

Size: A4

Date:

KiCad E.D.A. kicad 6.0.2+dfsg-1

Rev:

Id: 8/8