POWER SUPPLY

R_{fbt} = R_{fb} \left( \frac{V_{out}}{V_{ref}} - 1 \right)

\left( \frac{R_{fbt}}{R_{fb}} \right) \times V_{ref} + 1 = (\frac{261k}{100k}) \times 0.8 + 1 = 2.888V = V_{out}

Mode pin pulled high, forced PWM mode
HF PORT

9V in from Coax

R1 1.0k
R2 1.0k
C1 4.7µF 25V
C2 6.8µF 25V

L1
L4
CIG21L4R7MNE
600 ohm

L5
NLCV32T-101K-PF
9V_IN
DOUTP_F

CN1
59S10H-40ML5-Y
GND

PIC101
PIC102
COC1
PIC201
PIC202
COC2
PICN101
PICN102
PICN103
PICN104
PICN105
COCN1

PIL101 PIL102
PIL401 PIL402
PIL501 PIL502

PIR101 PIR102
PIR201 PIR202
COR1
COR2

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Filters are designed for 100mV drop at full load (see simulations)

Contact:

Aptina Image Sensor

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**SERIALIZER**

- **R13** = 4.7k → External oscillator used
- **R12** sets I2C address
- 0 ohm → Gx68 (7-40)
- **nMIR should be connected to TVS**
- **nMIR is push-pull, no need for pull-up**

**Notes:**
- I2C Lines pulled up on Aptina sheet
- I2C Lines pulled up on Aptina sheet
- R12 sets I2C address
- 0 ohm → Gx68 (7-40)
- **nMIR should be connected to TVS**
- **nMIR is push-pull, no need for pull-up**
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