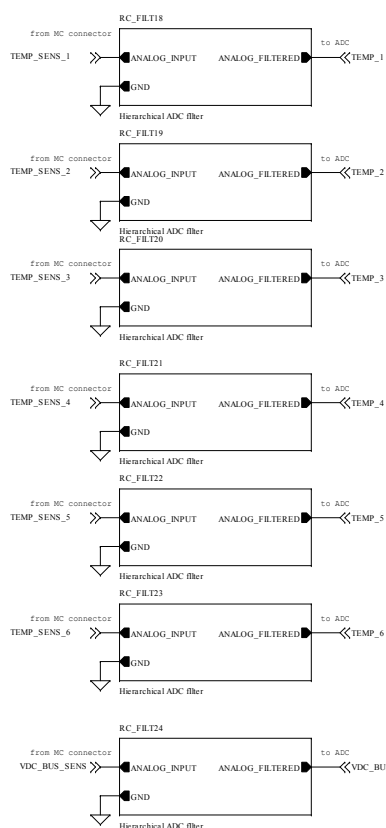


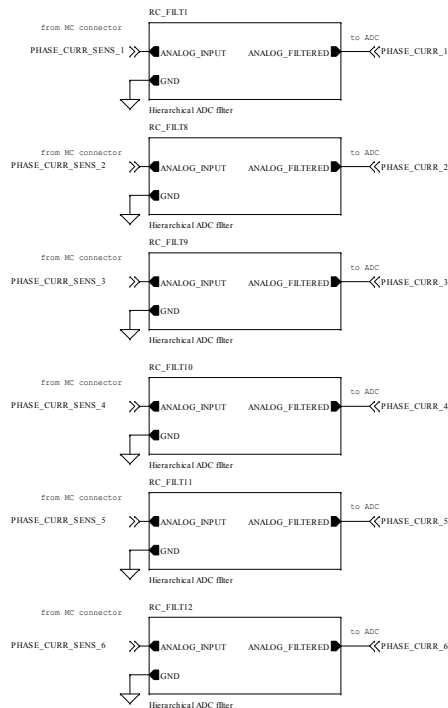
Schematic diagrams

Figure 1. STEVAL-CTM020A circuit schematic (1 of 26)

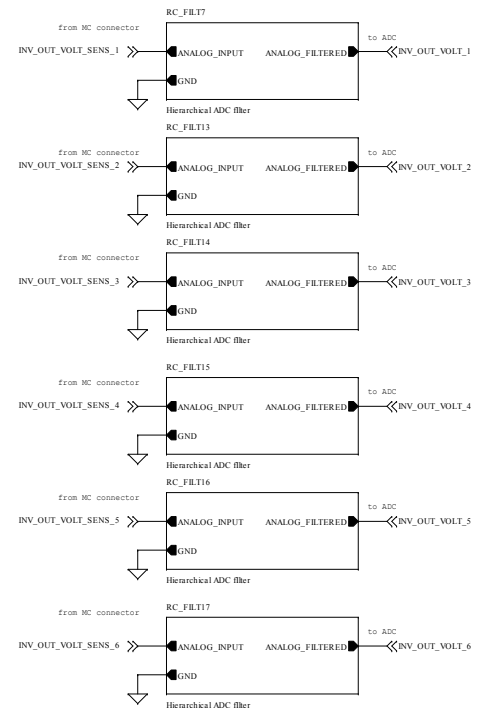
Temperature and DC Voltage Filters



Phase Current Filters



Inverter Output Voltage Filters



Resolver signals filters



Figure 2. STEVAL-CTM020A circuit schematic (2 of 26)

User Analog Input Filters

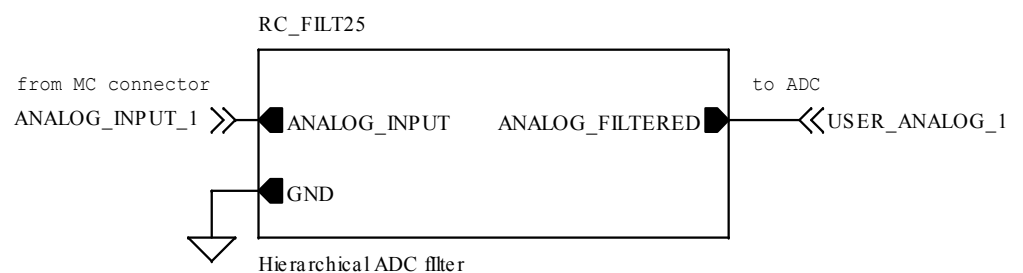
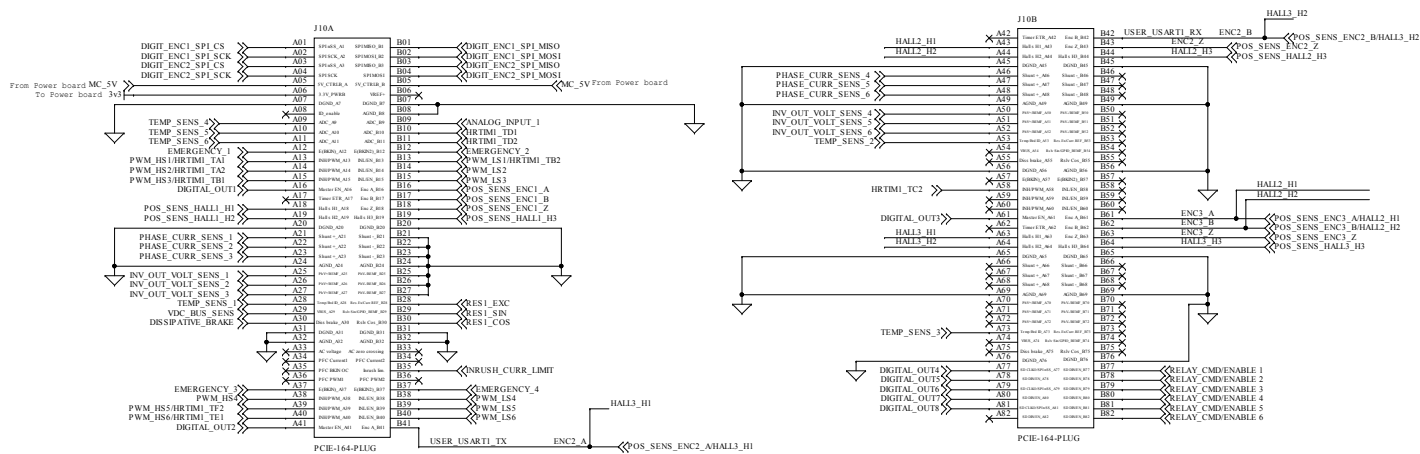
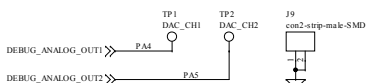


Figure 3. STEVAL-CTM020A circuit schematic (3 of 26)

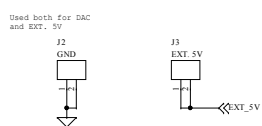
Motor Control (MC) Connector



Debug Signals - MCU DACs



5V selection - MC Connector/External



5V Selection Table

MC_5V	EXT_5V
1-2	Closed
2-3	Open

STLinkV3 Connector

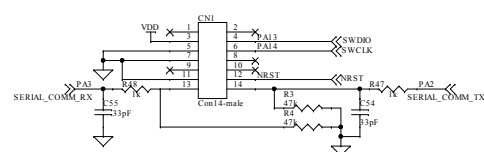
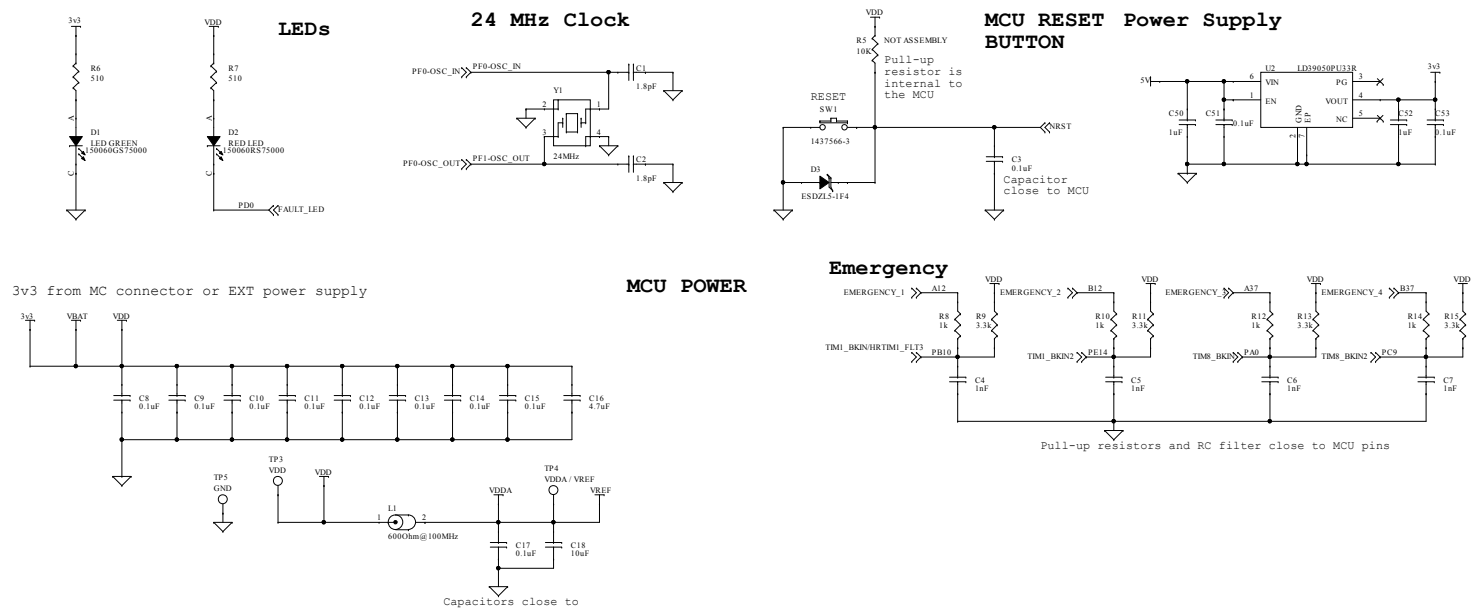
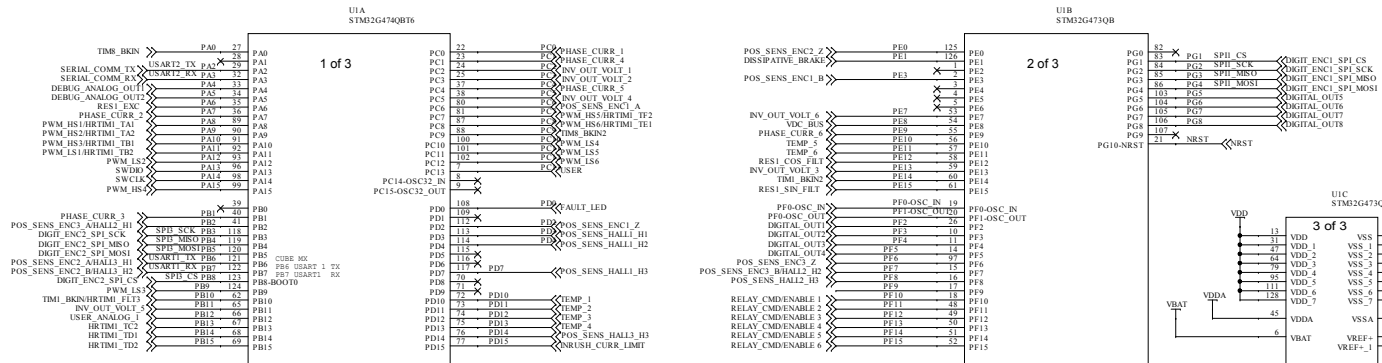


Figure 4. STEVAL-CTM020A circuit schematic (4 of 26)

Figure 5. STEVAL-CTM020A circuit schematic (5 of 26)

RC filter close to MCU pin

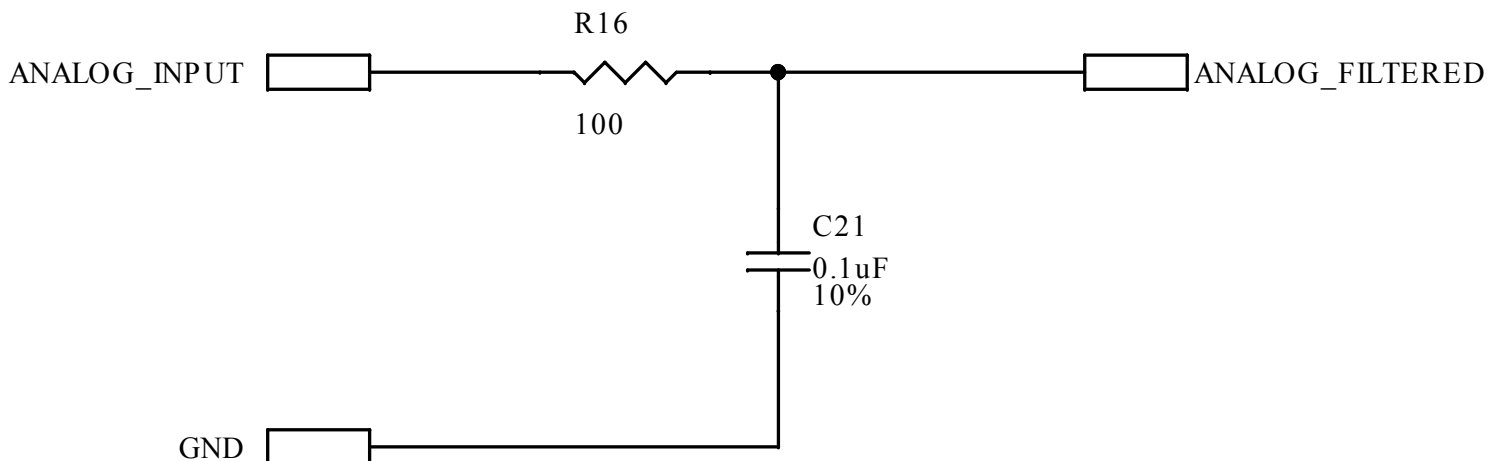


Figure 6. STEVAL-CTM020A circuit schematic (6 of 26)

RC filter close to MCU pin

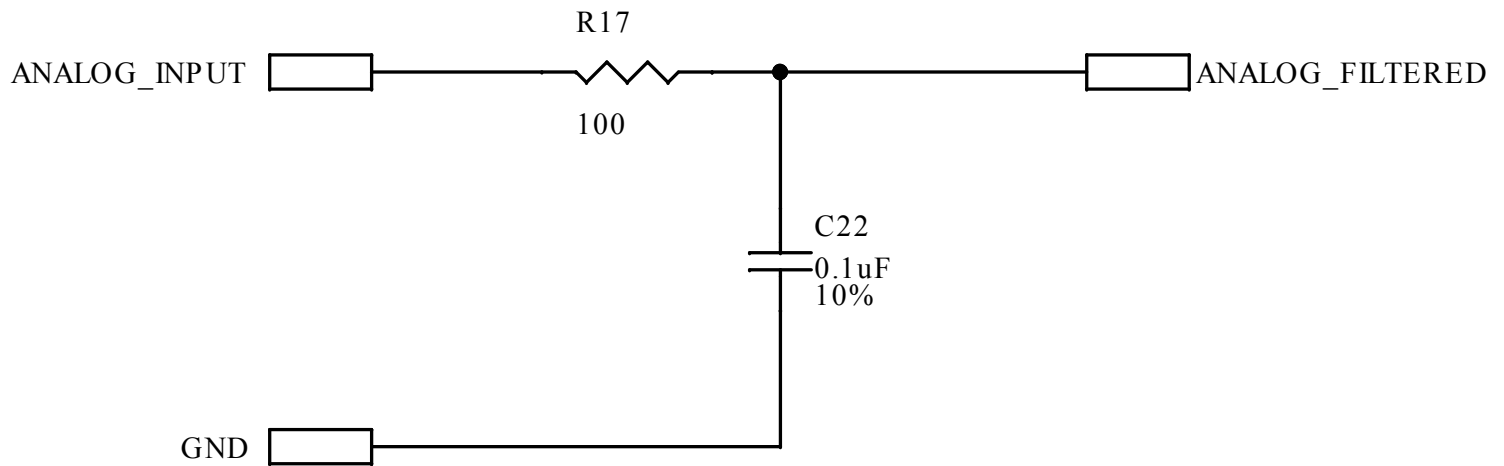


Figure 7. STEVAL-CTM020A circuit schematic (7 of 26)

RC filter close to MCU pin

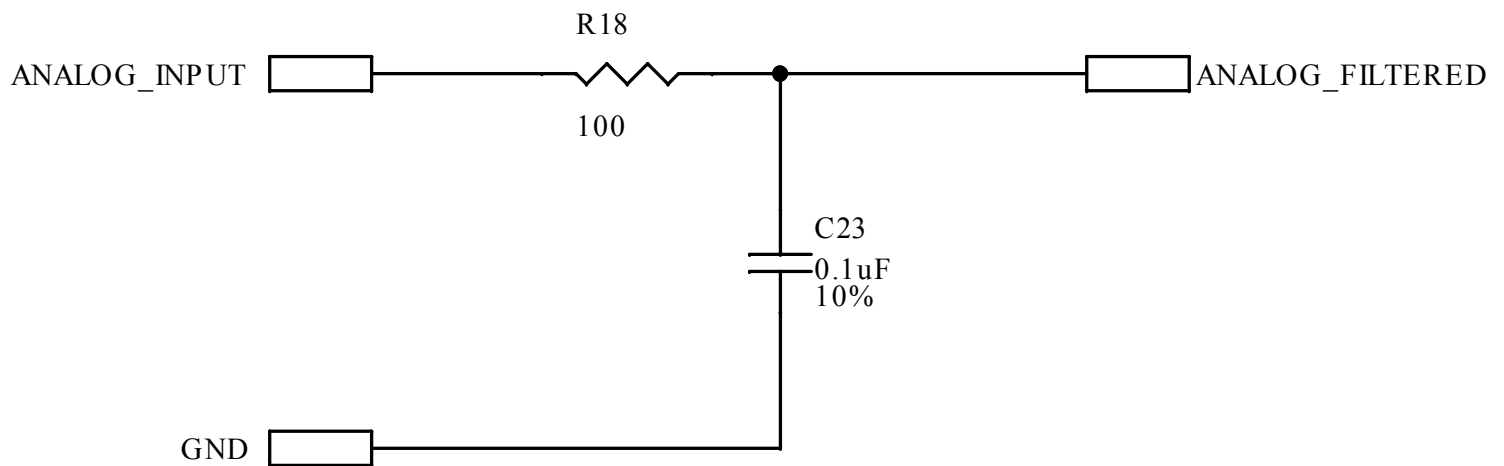


Figure 8. STEVAL-CTM020A circuit schematic (8 of 26)

RC filter close to MCU pin

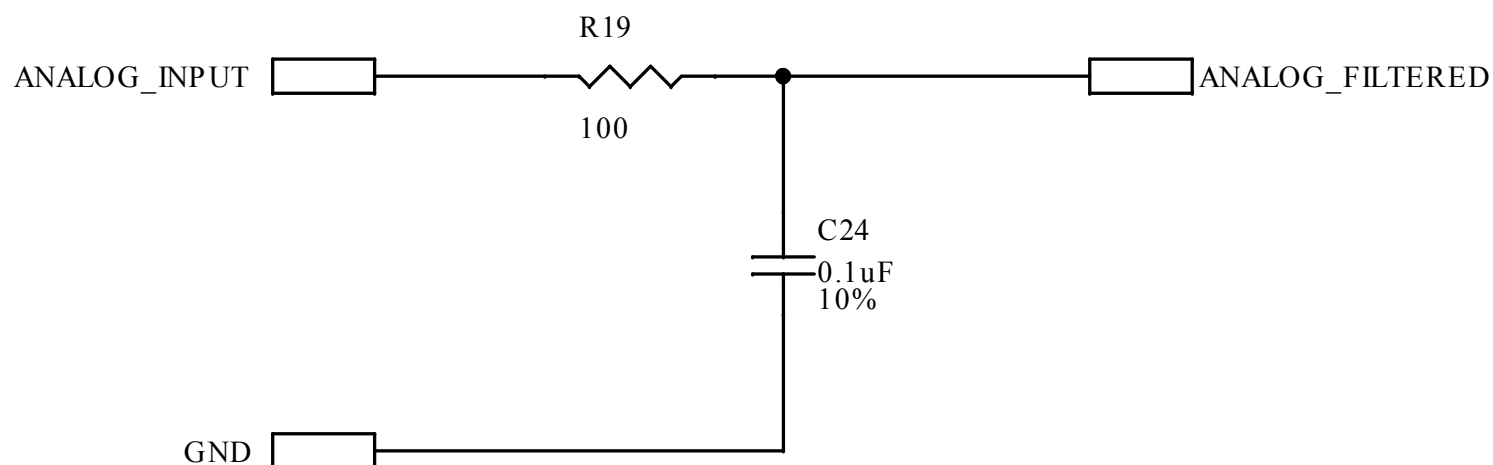


Figure 9. STEVAL-CTM020A circuit schematic (9 of 26)

RC filter close to MCU pin

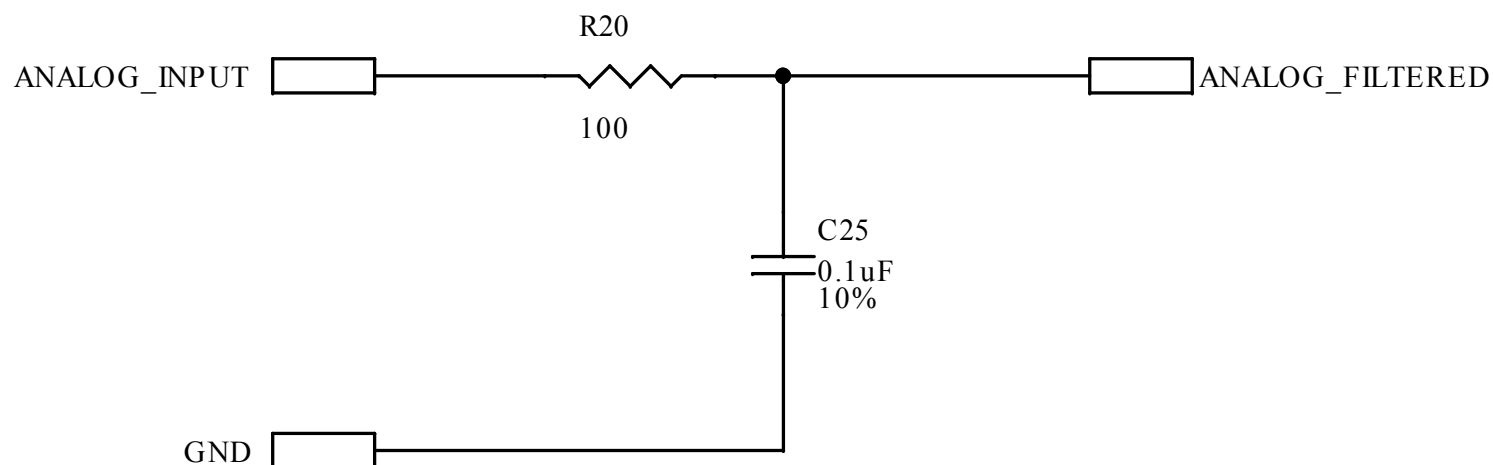


Figure 10. STEVAL-CTM020A circuit schematic (10 of 26)
RC filter close to MCU pin

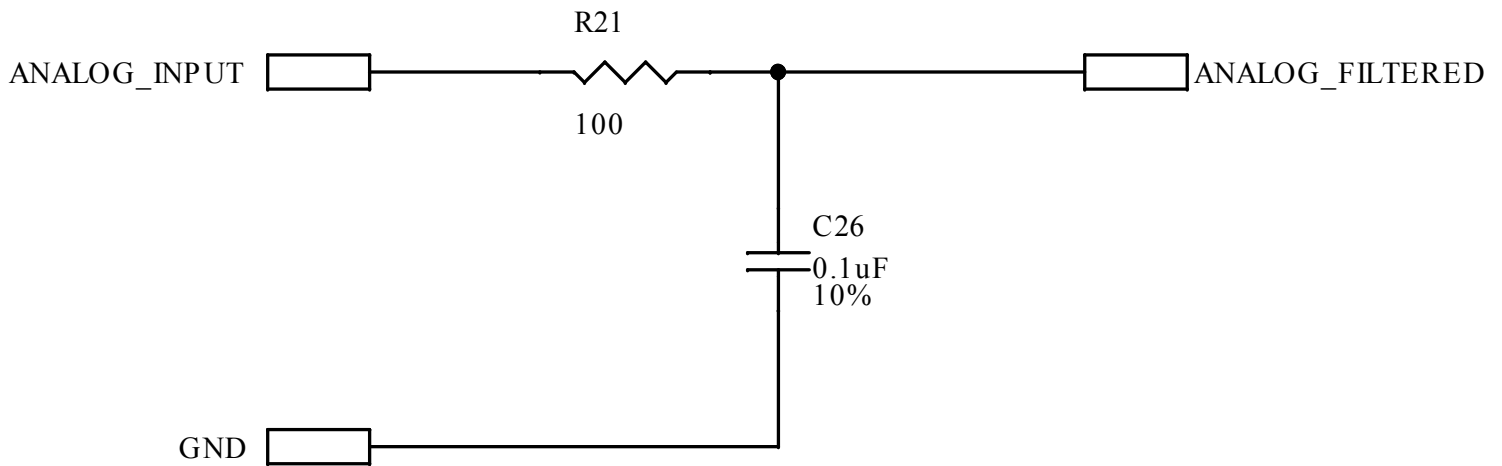


Figure 11. STEVAL-CTM020A circuit schematic (11 of 26)
RC filter close to MCU pin

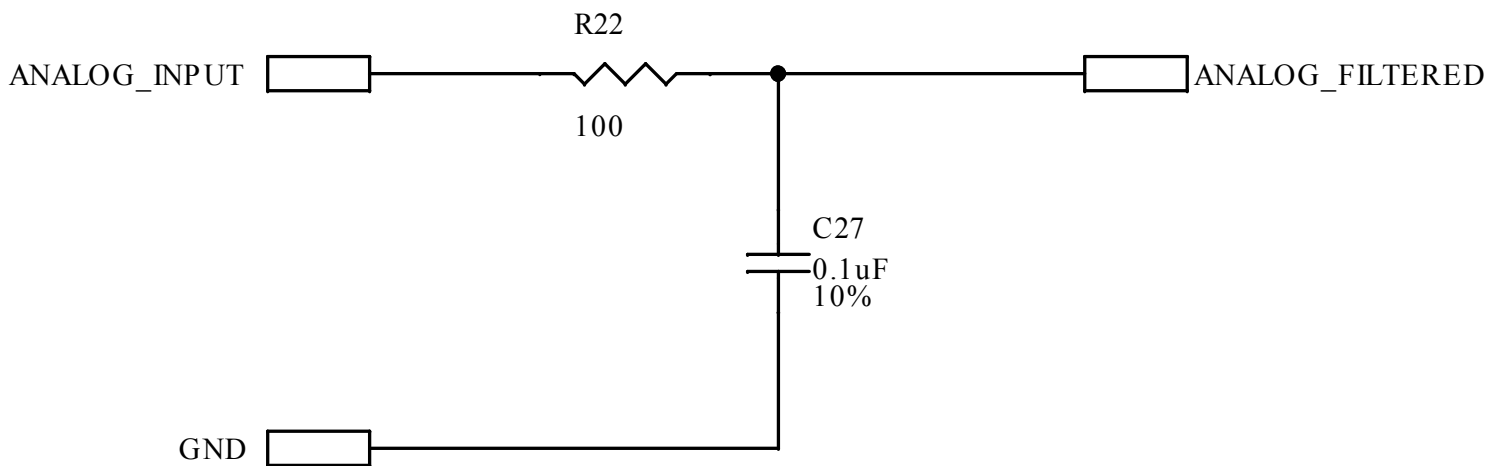


Figure 12. STEVAL-CTM020A circuit schematic (12 of 26)
RC filter close to MCU pin

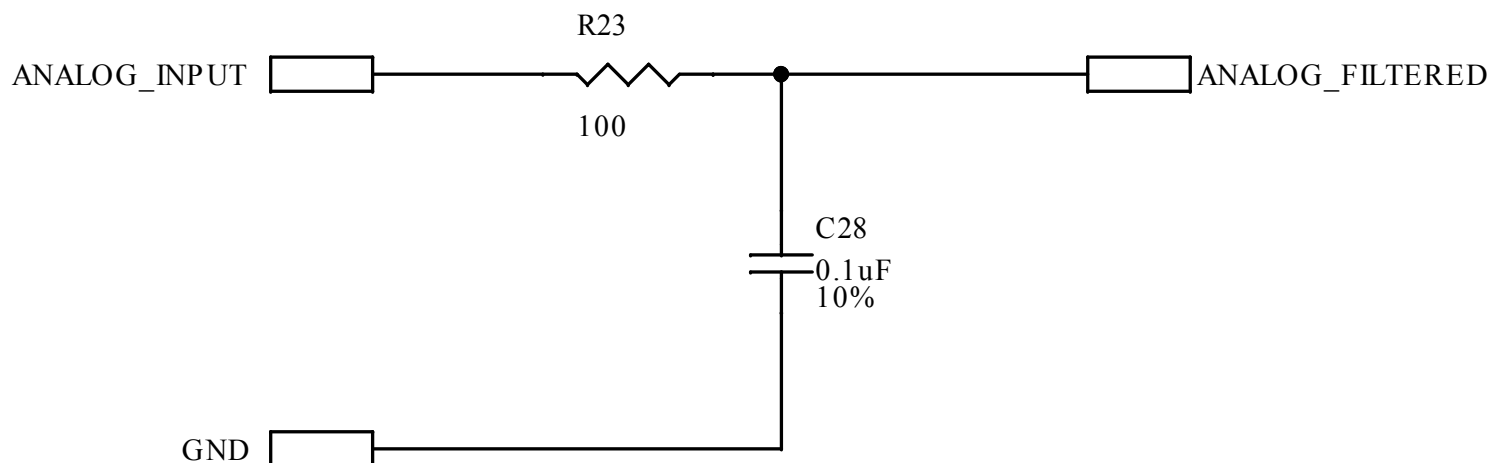


Figure 13. STEVAL-CTM020A circuit schematic (13 of 26)
RC filter close to MCU pin

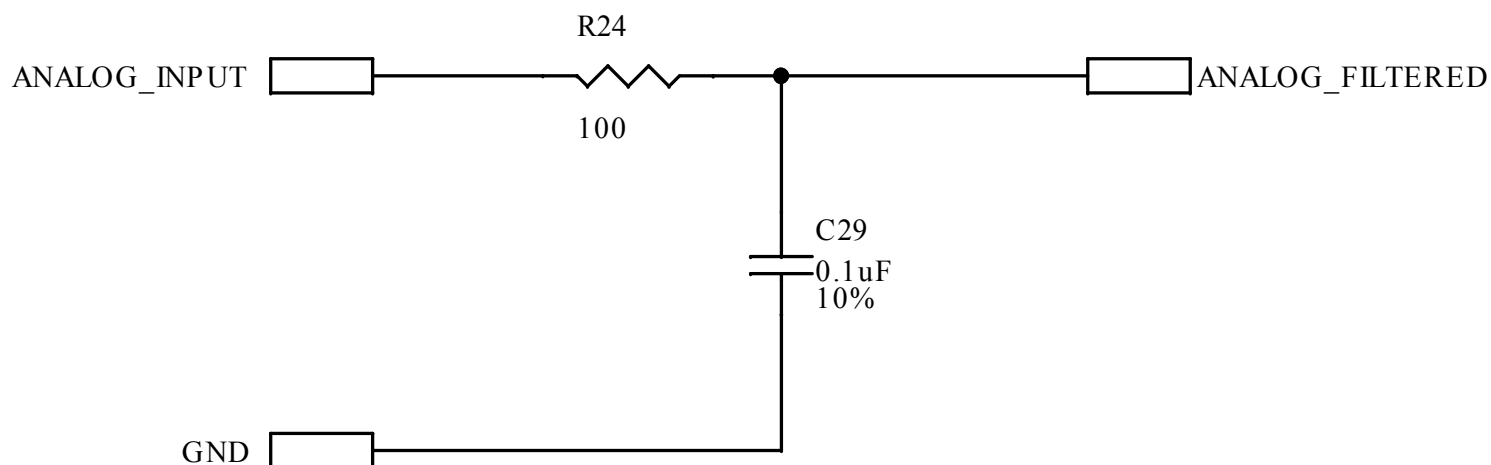


Figure 14. STEVAL-CTM020A circuit schematic (14 of 26)
RC filter close to MCU pin

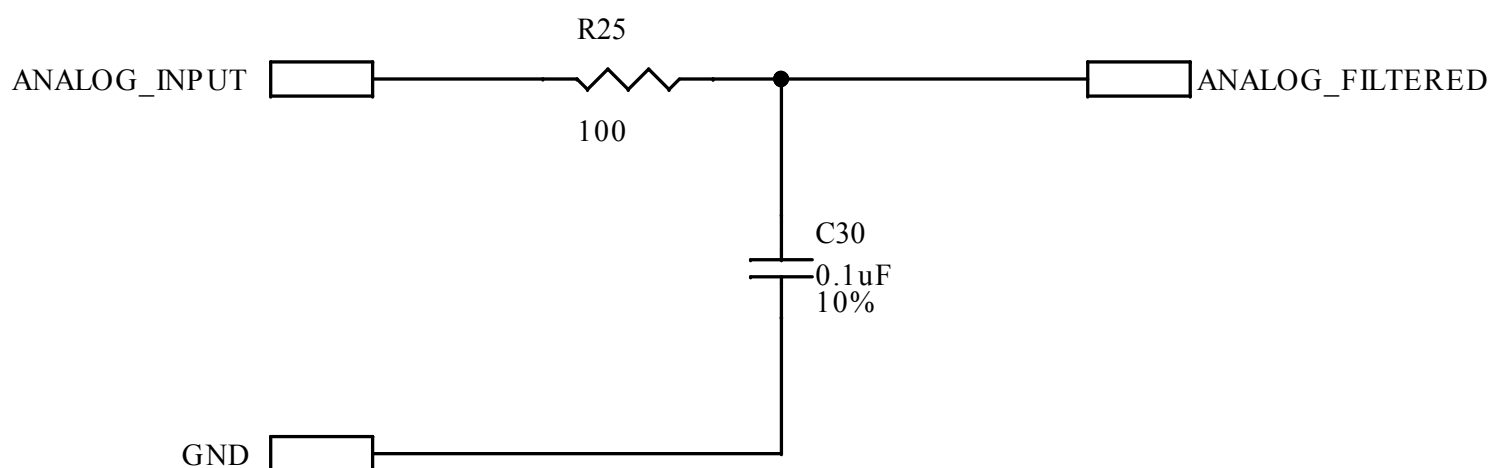


Figure 15. STEVAL-CTM020A circuit schematic (15 of 26)
RC filter close to MCU pin

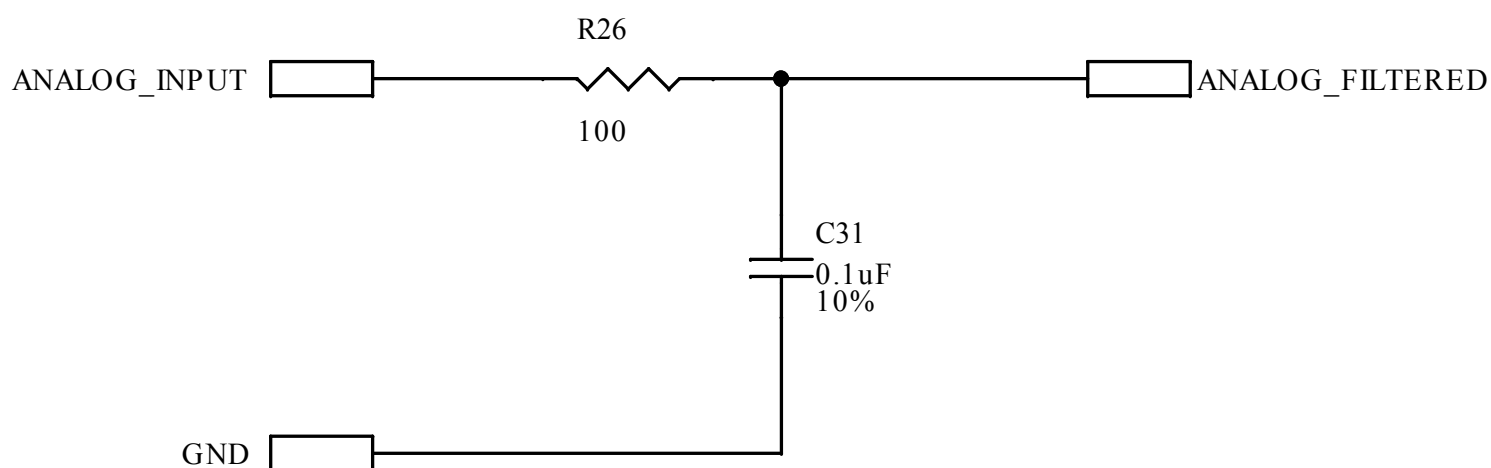


Figure 16. STEVAL-CTM020A circuit schematic (16 of 26)

RC filter close to MCU pin

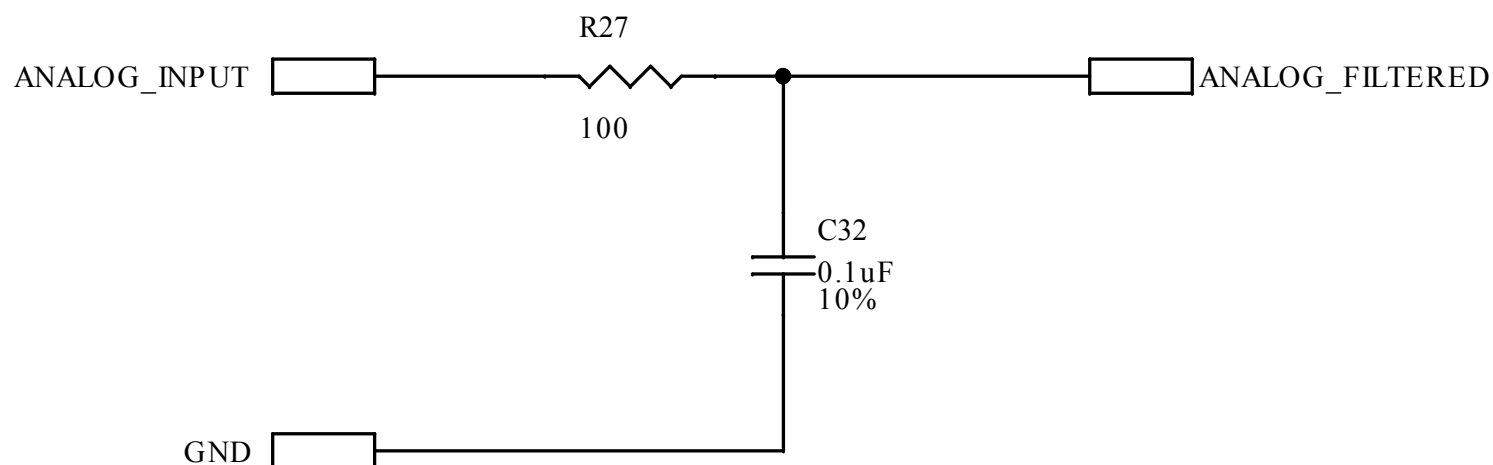


Figure 17. STEVAL-CTM020A circuit schematic (17 of 26)

RC filter close to MCU pin

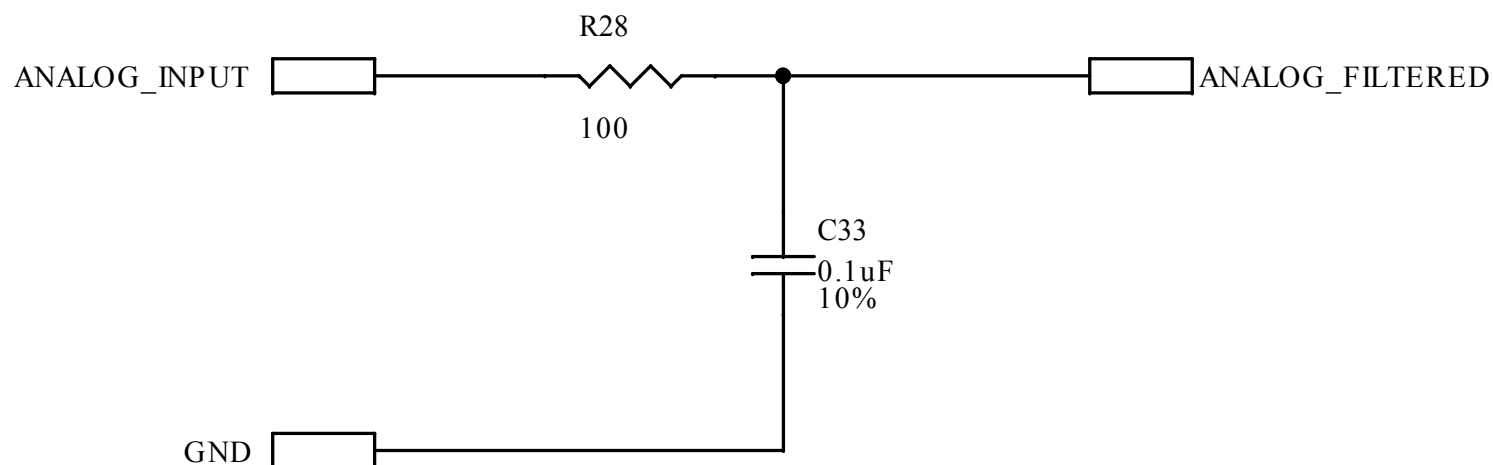


Figure 18. STEVAL-CTM020A circuit schematic (18 of 26)
RC filter close to MCU pin

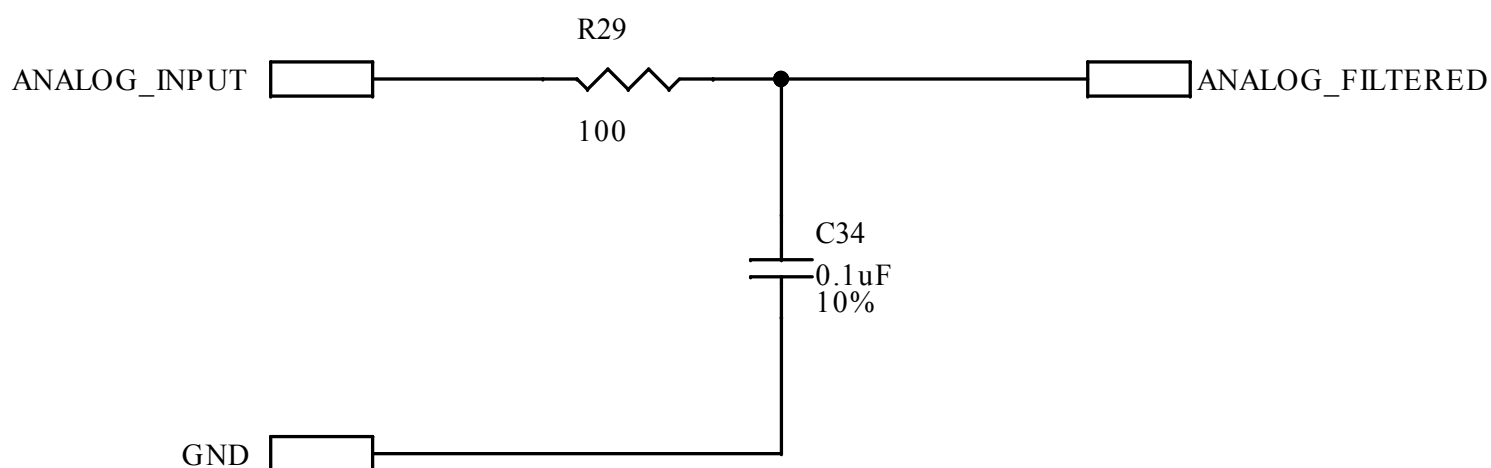


Figure 19. STEVAL-CTM020A circuit schematic (19 of 26)
RC filter close to MCU pin

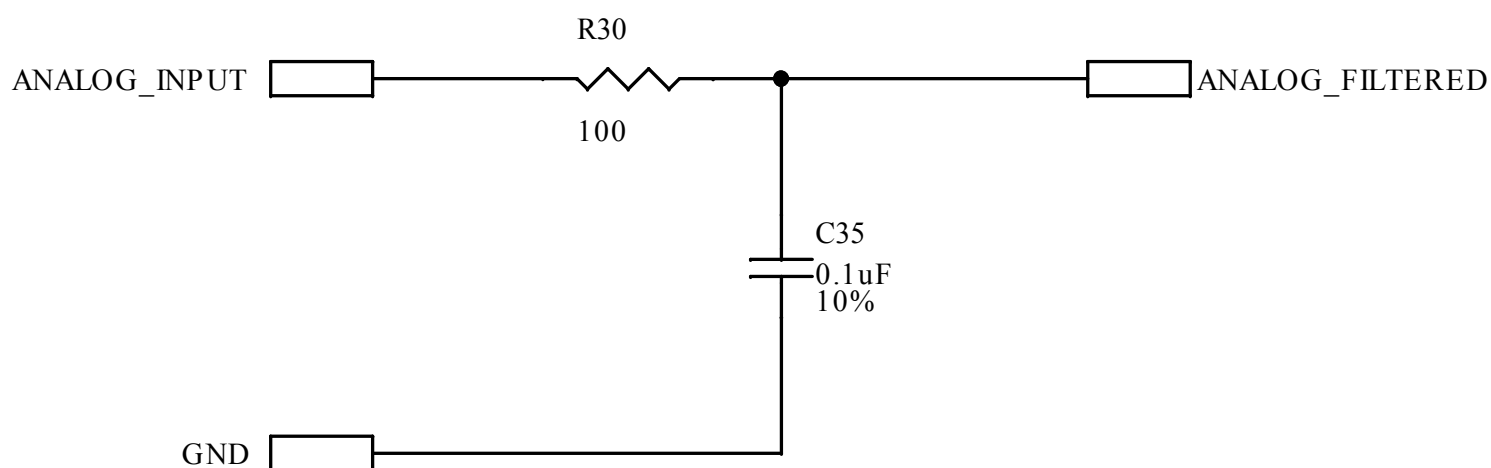


Figure 20. STEVAL-CTM020A circuit schematic (20 of 26)

RC filter close to MCU pin

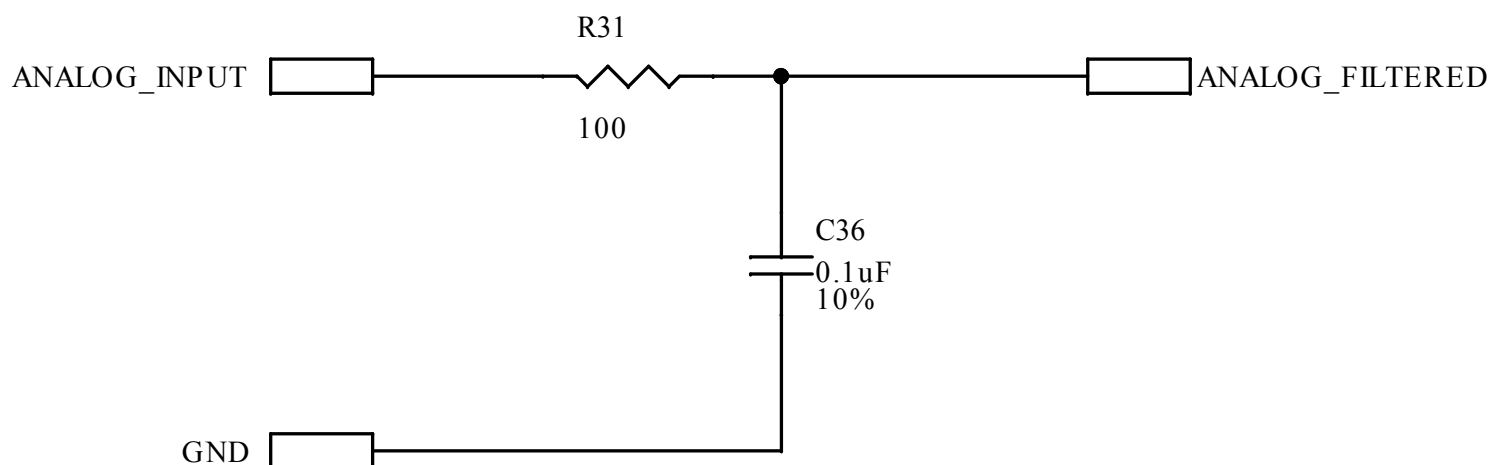


Figure 21. STEVAL-CTM020A circuit schematic (21 of 26)

RC filter close to MCU pin

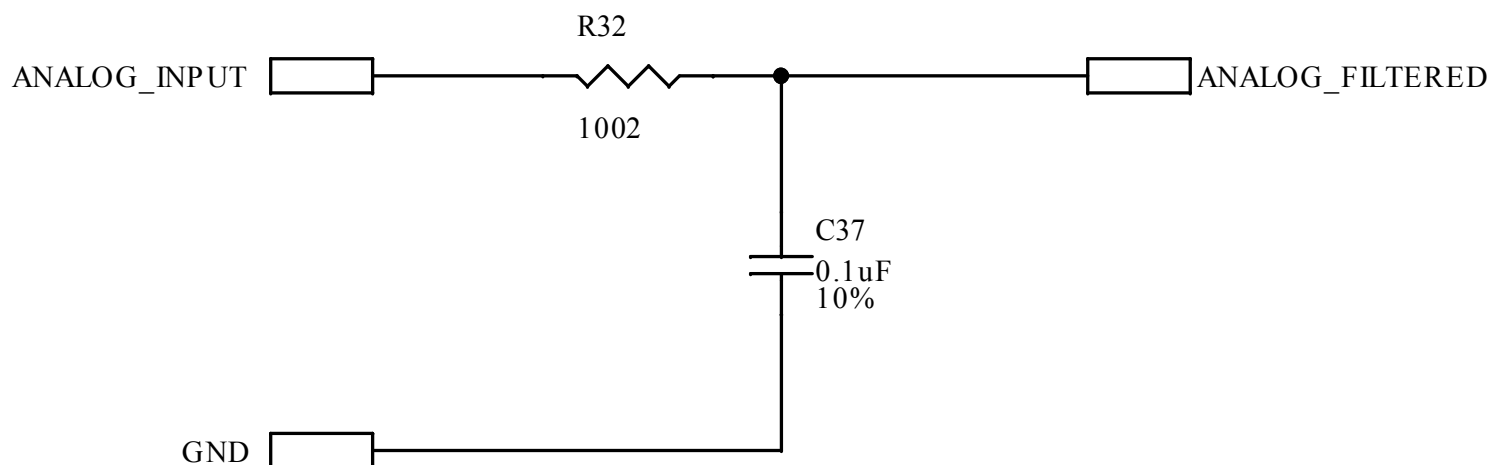


Figure 22. STEVAL-CTM020A circuit schematic (22 of 26)

RC filter close to MCU pin

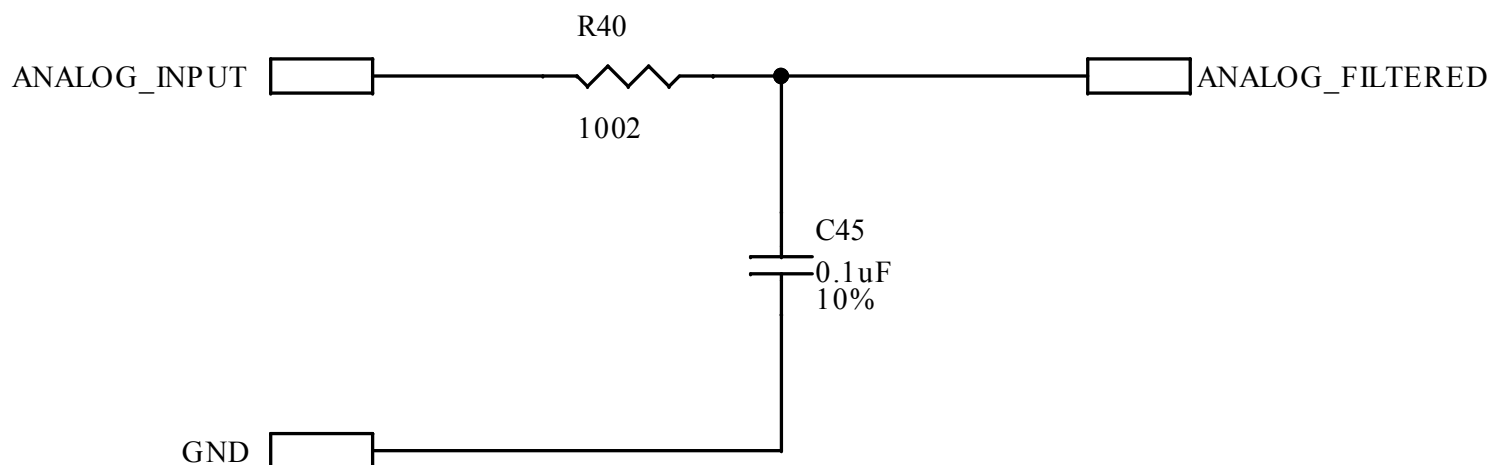


Figure 23. STEVAL-CTM020A circuit schematic (23 of 26)

RC filter close to MCU pin

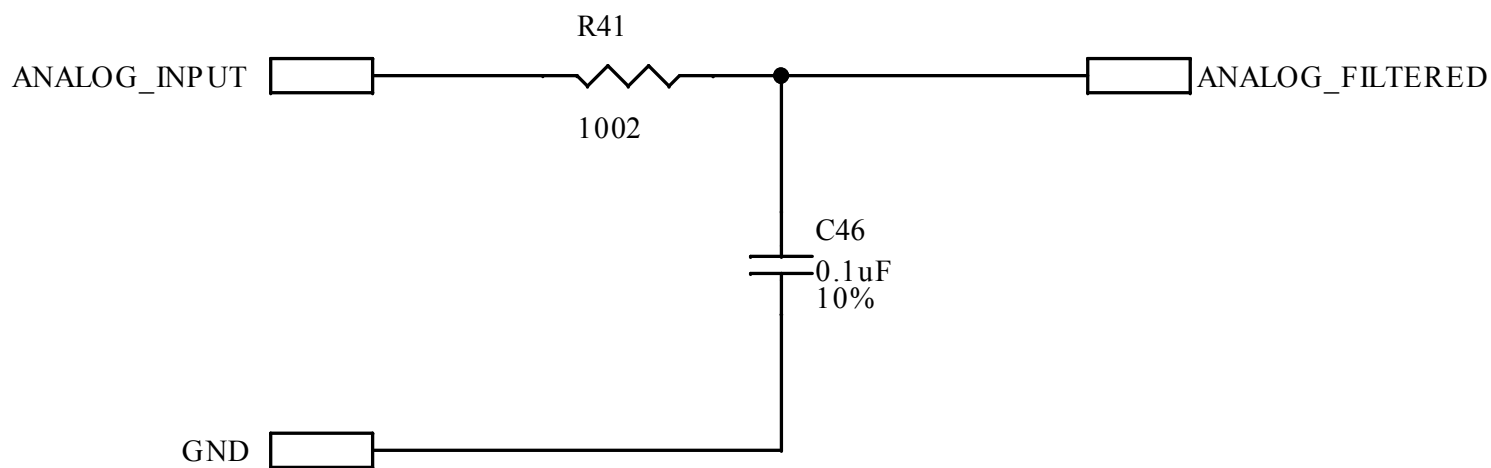


Figure 24. STEVAL-CTM020A circuit schematic (24 of 26)

RC filter close to MCU pin

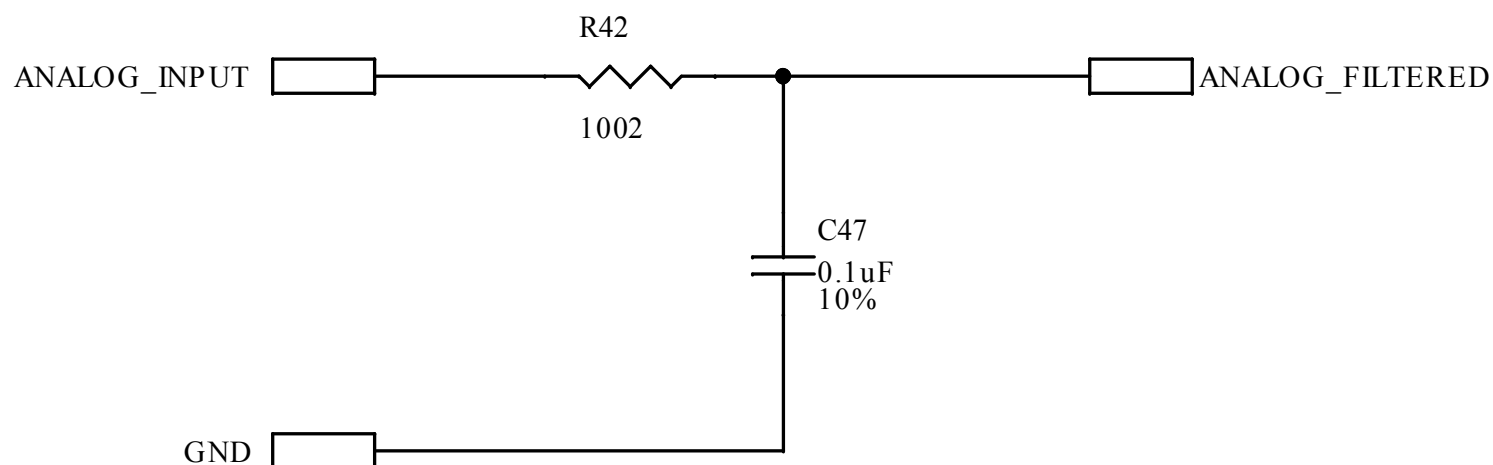


Figure 25. STEVAL-CTM020A circuit schematic (25 of 26)

RC filter close to MCU pin

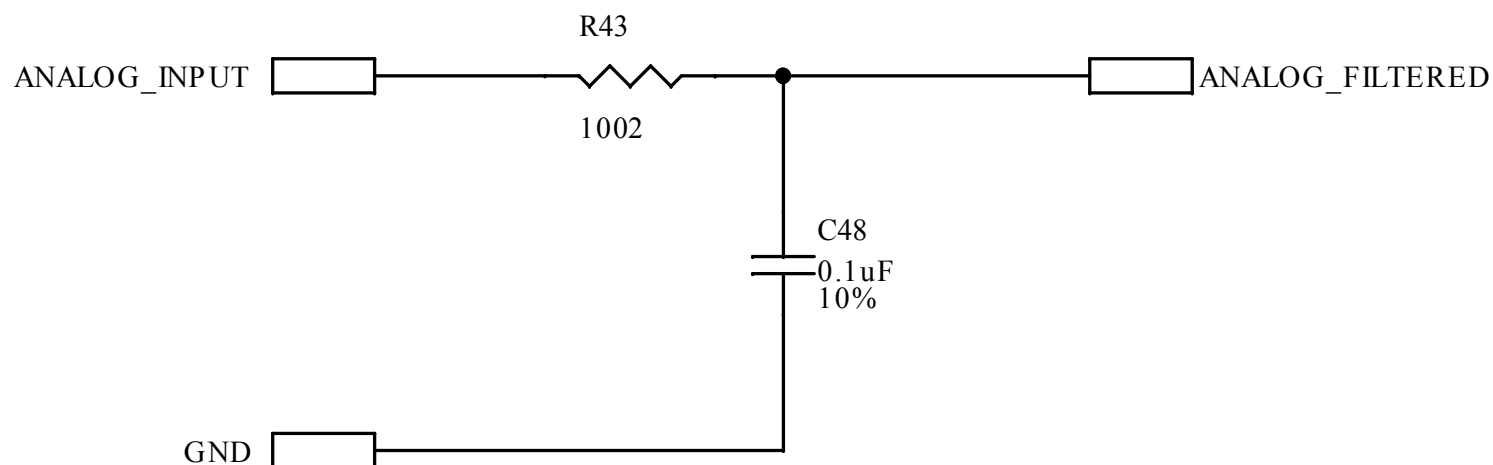
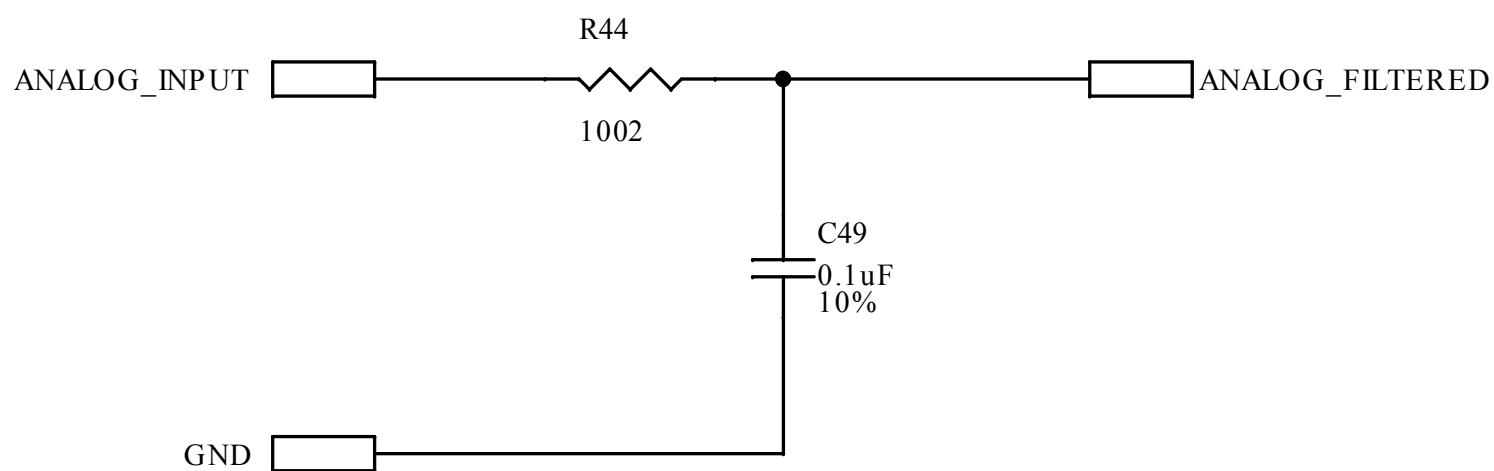


Figure 26. STEVAL-CTM020A circuit schematic (26 of 26)

RC filter close to MCU pin



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