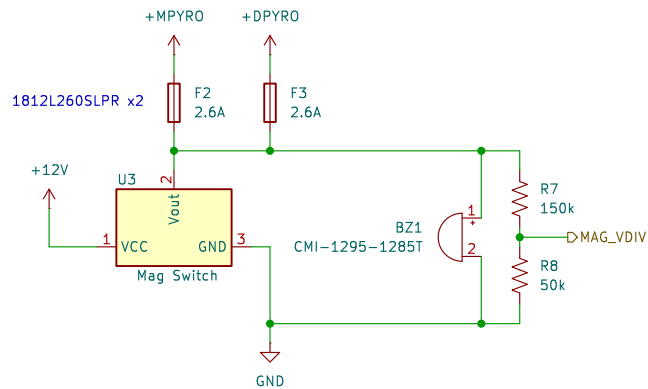
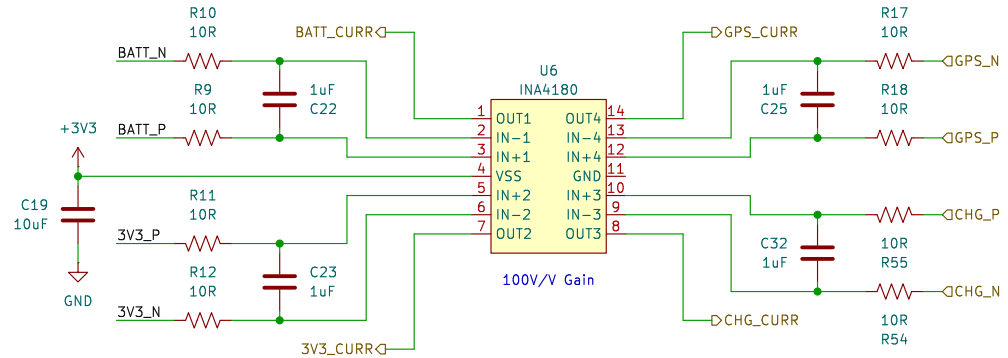
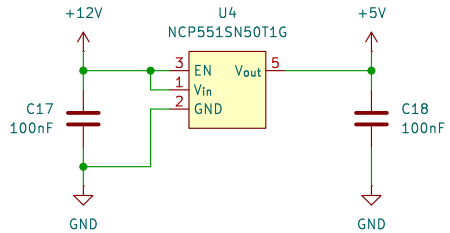


<https://webench.ti.com/appinfo/webench/scripts/SDP.cgi?ID=8EEB3FF6B6984B15>

12V to 5V LDO (for MCP2562 only)



Sheet: /power/
File: power.kicad_sch

Title:

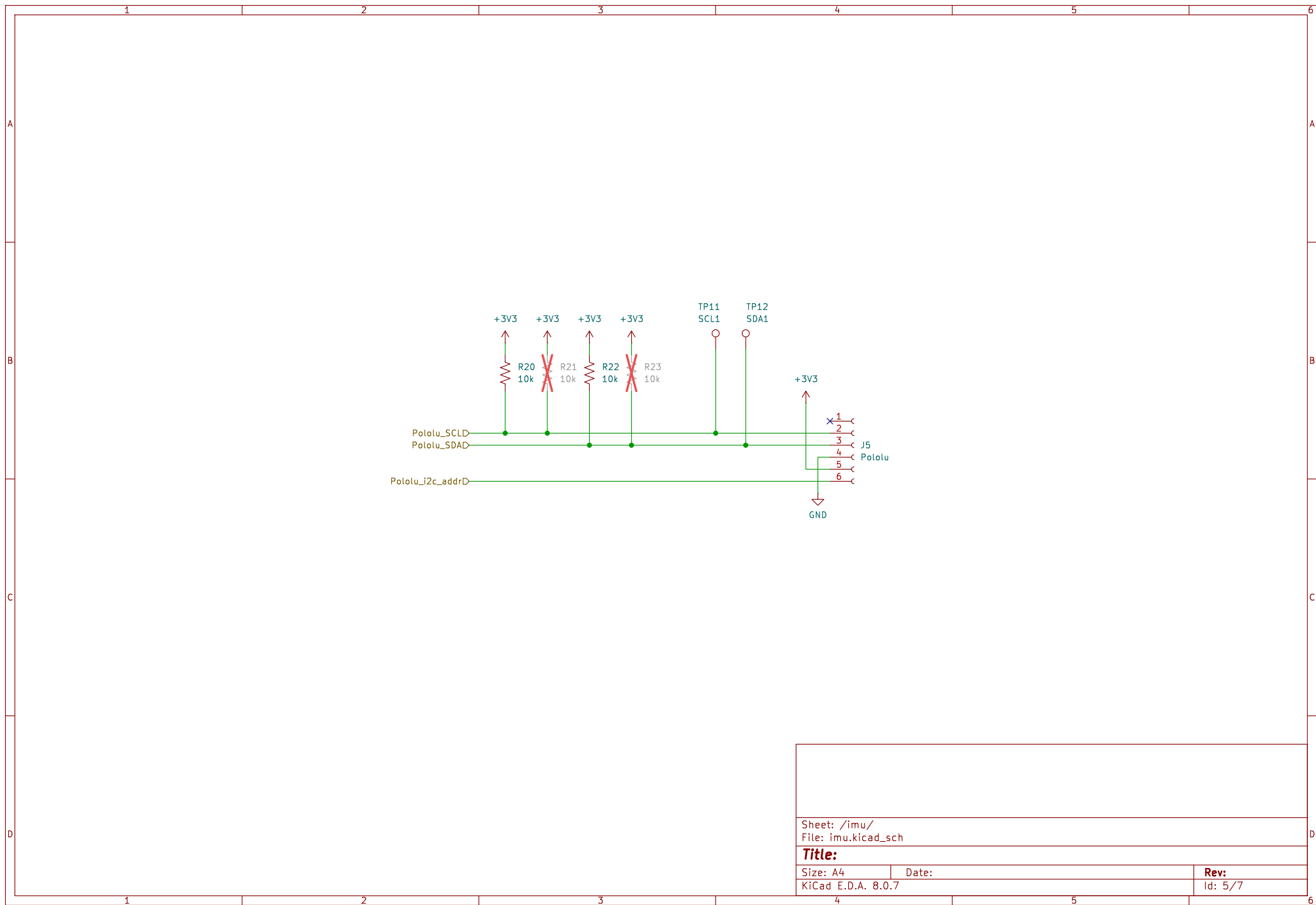
Size: A4

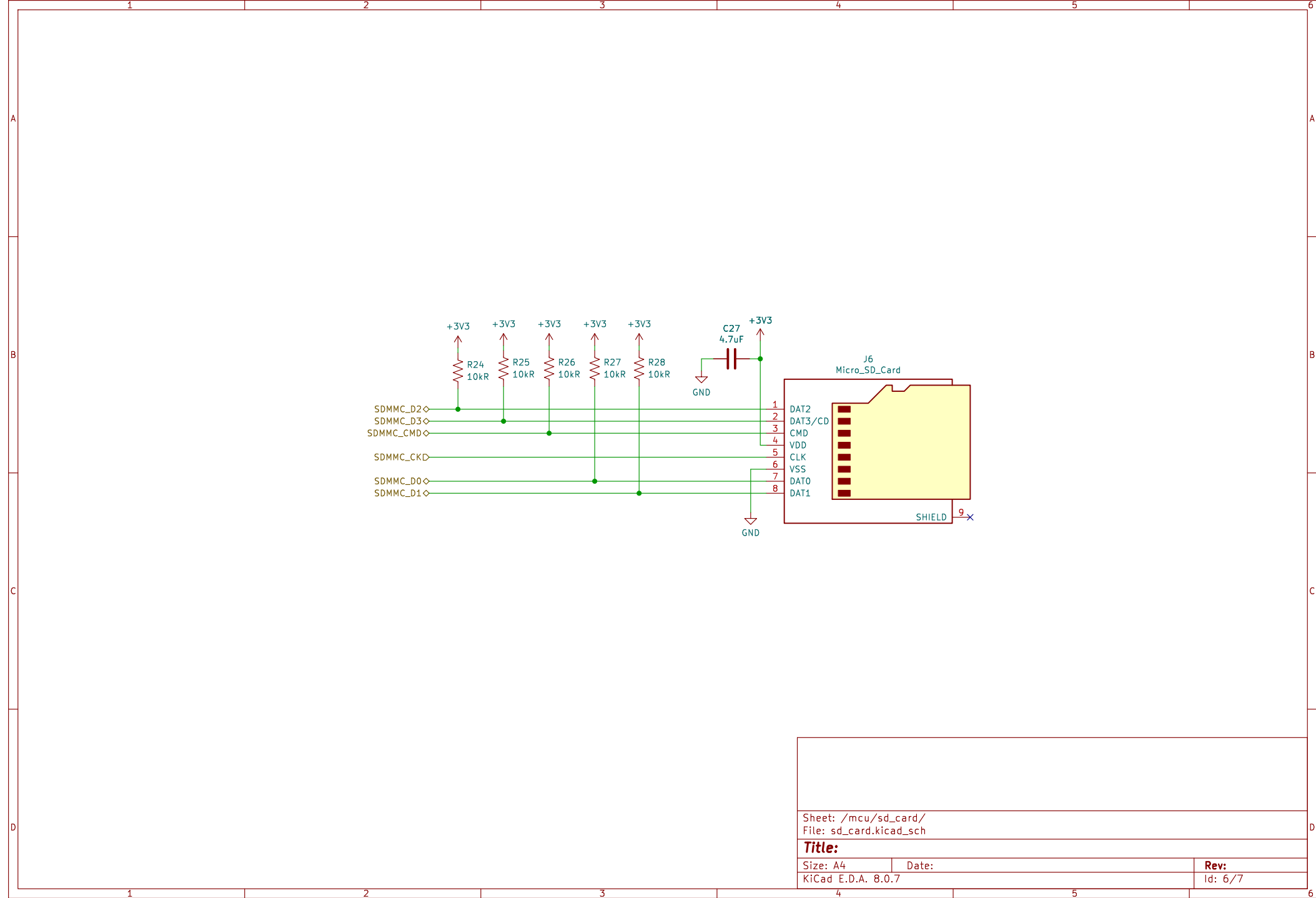
Date:

KiCad E.D.A. 8.0.7

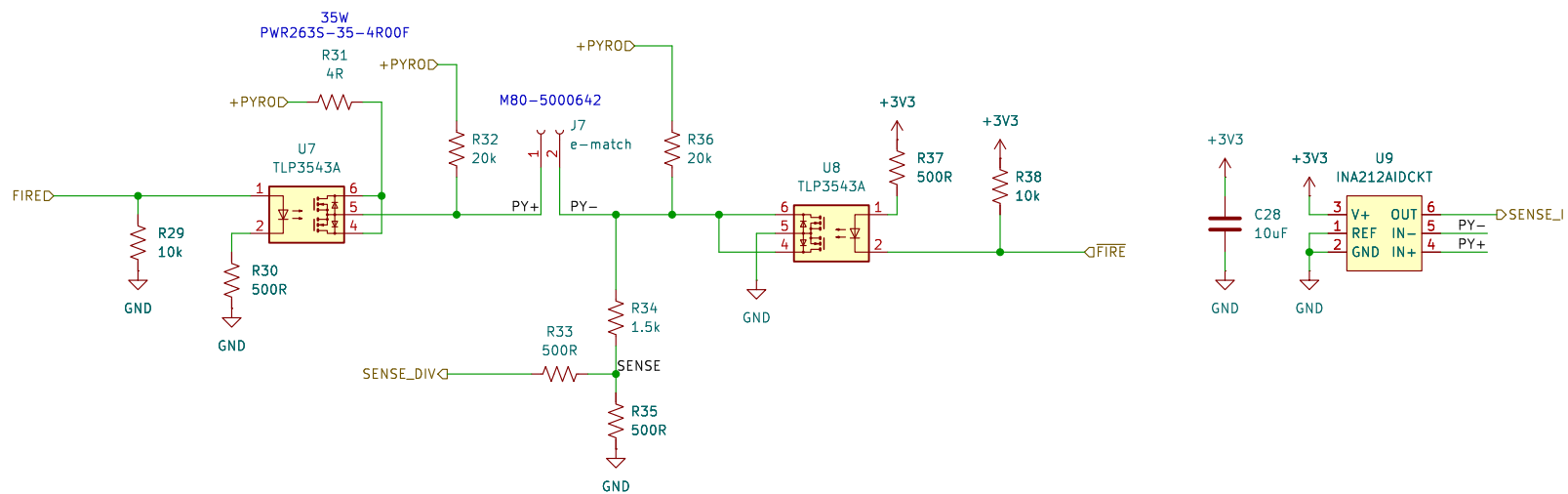
Rev:

Id: 4/7





$I_{pyros} = 12.6 / (R_{limit} + R_{match})$
 Minimum $I_{pyros} = 2$ in parallel, minimum single fire current is 0.5A
 $F05\ 2 \rightarrow I_{pyros} = 2A$
 $R_{limit} = 4.75$ (round down to 4 to get $I_{pyros} = 2.3A$)
 Worst Case (shorted ematch): $P = V^2 / R = (12.6)^2 / 4 = 39.69W$
 Nominal Case : $P = I^2 * R = 20.99W$



Sheet: /main/
File: pyros.kicad_sch

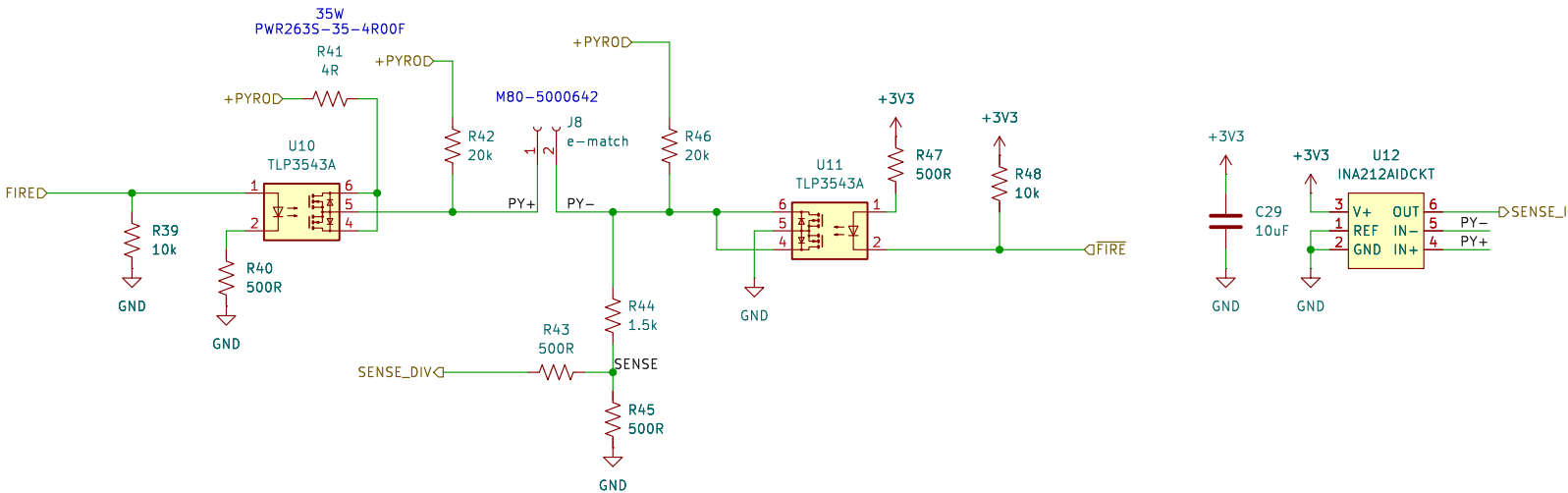
Title:

Size: A4	
KiCad E.D.A. 8.0.7	

Date:

Rev:
Id: 7/7

$I_{pyros} = 12.6 / (R_{limit} + R_{ematch})$
 Minimum I_{pyros} - 2 in parallel, minimum single fire current is 0.5A
 FOS 2 $\rightarrow I_{pyros} = 2A$
 $R_{limit} = 4.75$ (round down to 4 to get $I_{pyros} = 2.3A$)
 Worst Case (shorted ematch): $P = V^2 / R = (12.6)^2 / 4 = 39.69W$
 Nominal Case : $P = I^2 * R = 20.99W$



Sheet: /drogue/
 File: pyros.kicad_sch

Title:

Size: A4

Date:

KiCad E.D.A. 8.0.7

Rev:

Id: 8/7