

To Gateway Node

Pins 1&2 : 18AWG
Pins 3&4 : 24AWG

Stuff J1 for initial testing.

Remove J1 and solder whip
directly to board prior to potting.

Pin holes for PN#1881464 have d = 1.2mm
18AWG wire d = 1.024mm
24AWG wire d = 0.511mm

Stuffing option:

Only stuff one DC-DC
Converter at a time.

Layout Note:
Verify pin hole diameters on
both styles of DC-DC's.

Stuffing option:

Remove R12 to disable
ON indicator LED.

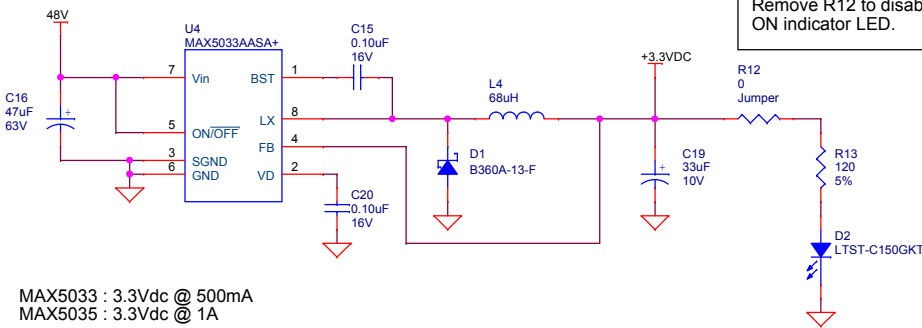
Layout Note:
Place U5 close to U20 [PIC]

Stuffing option:

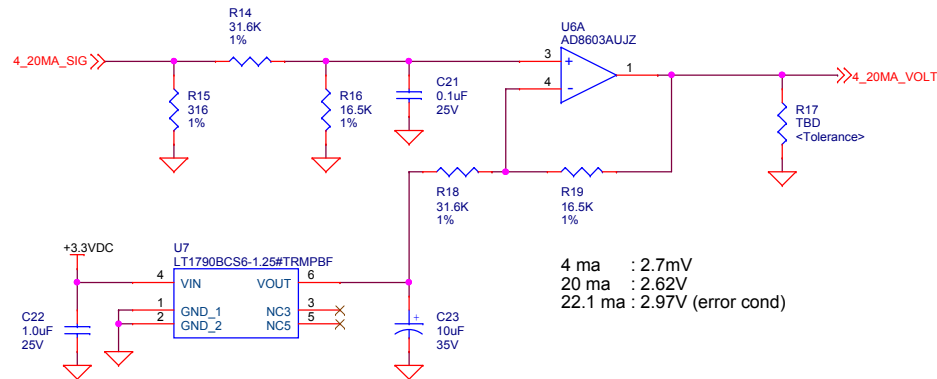
Optional parts for 4-20ma circuit.

If not using 4-20ma, the following parts can be no stuff:
R14, R15, R16, R18, R19, C21, C22, C23, C26, U6, U7.
Also populate R17 with a zero ohm resistor.

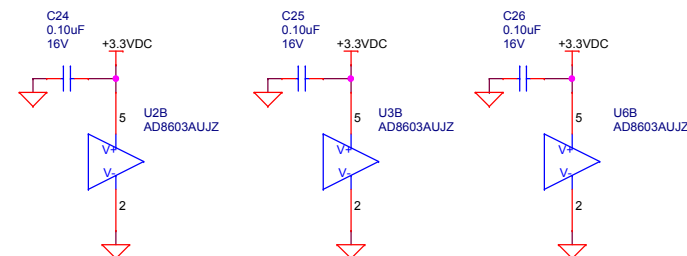
If using 4-20ma, populate above parts, but leave R17 open.



MAX5033 : 3.3Vdc @ 500mA
MAX5035 : 3.3Vdc @ 1A



4 ma : 2.7mV
20 ma : 2.62V
22.1 ma : 2.97V (error cond)



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Title	swFOCE Sensor Node Board	Number	<Doc>
Size	Engineer Chad Kacy	Layout	<Layout Eng.>
C	Date: Thursday, May 16, 2013	Filename	<Filename>
		Rev	B