



CS OUT current sense resistor
 $(DAC_REF \times [MX4_MX0]/16) / (250E-6 \times A) = RSenseX$
 RSenseX = 18.75K for 1 Amps
 RSenseX = 9.375K for 2 Amps
 RSenseX = 6.8K for 2.75A (RHT23-260 Oz Motors)
 RSenseX = 6.25K for 3 Amps

R39,R40 set DAC_REF to a percentage of 5V when Qh == 0 which results in reduced drive to motors
 Alternatively, two MAX5464 pots set the current or even better, one MAX5468 sets the reference voltage. Resistors are the lowest cost option. Setting the current with the MAX5464 is probably more versatile and keeps the reference voltage reasonably high to potentially reduce noise. In-between is the MAX5468 which is perhaps the best.

MAX5468 as primary Reference Voltage divider.
 $(R39,R40 == Open)$
 $(5V \times 15/16)$
 $----- = 6250 Ohms$ for RSense and VR2=0
 $(250E-6 \times 3A)$
 Set MAX5468 to 50% (5K) and so REF=2.5V A=1.5A

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 Electronic Lead Screw Motor Driver circuit and VCC power supply

Size Tabloid	FCSM No.	DWG No.	Rev Rev 2.3a
Scale			Sheet 8 of 8