



32" eTape:  
 $V_{min} = 400\text{ohm} / 5400\text{ohm} = 0.074 \cdot V_{ref}$   
 $V_{max} = 5\text{kohm} / 10\text{kohm} = 0.5 \cdot V_{ref}$   
 $(0.5 - 0.074) \cdot 1024 = 436 \text{ counts}$   
 $32" / 436 \text{ counts} = 0.073" \text{ resolution}$

8" eTape:  
 $V_{min} = 400\text{ohm} / 1900\text{ohm} = 0.21 \cdot V_{ref}$   
 $V_{max} = 1.5\text{kohm} / 3\text{kohm} = 0.5 \cdot V_{ref}$   
 $(0.5 - 0.21) \cdot 1024 = 297 \text{ counts}$   
 $8" / 297 \text{ counts} = 0.027" \text{ resolution}$

TITLE I2C eTape Interface

FILE: i2c-etape.sch

PAGE 1 OF 1

REVISION:

DRAWN BY: Michael Petersen