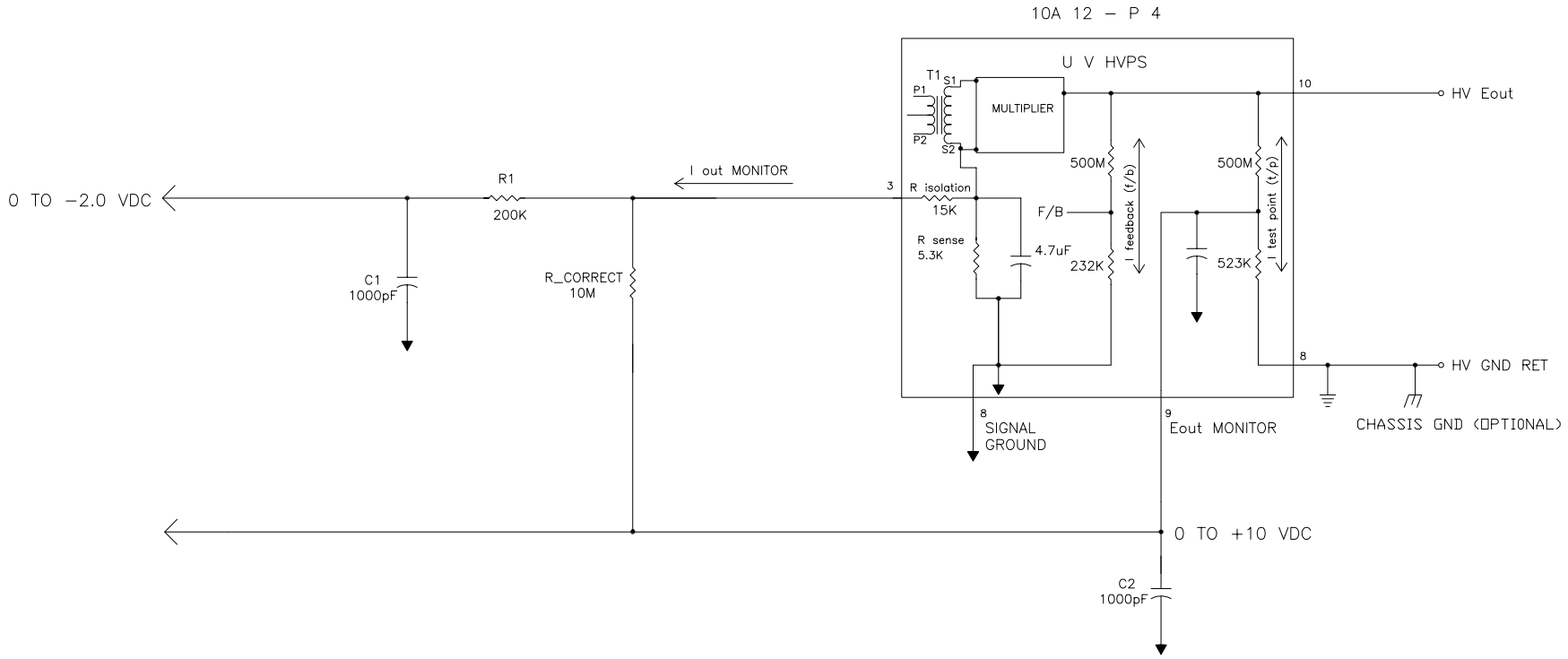

(1 f/b +1 t/p) * R sense = E error

$$\frac{10KV}{500M + 523K} = 1\ f/b = 0.000020 = 20uA$$

(20uA + 20uA) * 5.3K ohms = E error = 212mV

$$\frac{E\ error}{R\ isolation} = I\ correction$$

$$\frac{10KV}{500M = 523K} = 1\ t/p = 0.000020 = 20uA$$

$$\frac{212mV}{215K} = 1\ correction = 0.986uA = 986nA$$

$$\frac{E\ out\ Monitor}{I\ correction} = R\ correction$$

R sense = 5.3K ohms R isolation = 15K + 200K = 215K

$$\frac{10V}{0.986uA} = R\ correction = 10.14M$$

UltraVolt, Inc.
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Ronkonkoma, NY 11779
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Title	BUFFERED TRUE Iout MONITOR AND BUFFERED Eout MONITOR	
Size A	Number UV– HVPS–CONN–15	Rev. C1
Date 6/5/00		Drawn By M.Z.
Filename UV-HVPS-CONN-15P1_revC1.dwg		Sheet 1 Of 3