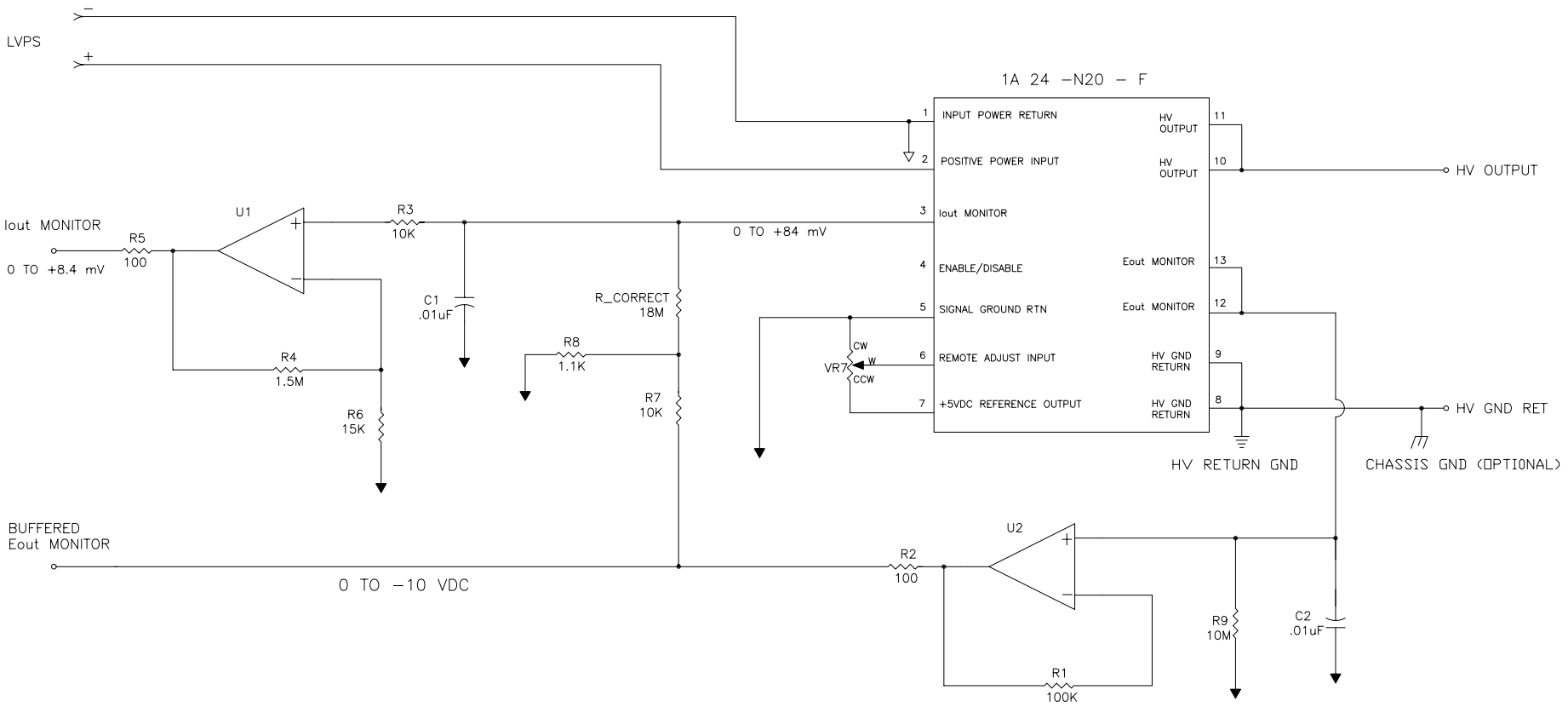

(1 f/b +1 t/p) * R sense = E error

$$\frac{1KV}{10M + 46.6K} = 1 \text{ f/b} = 0.0000995 = 99.5uA$$

(99.5uA + 98.9uA) * 4.2 ohms = E error = 0.83mV

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

$$\frac{1KV}{10M + 102K} = 1 \text{ t/p} = 0.0000989 = 98.9uA$$

$$\frac{0.83mV}{15K} = 1 \text{ correction} = 0.055uA = 55nA$$

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

R sense = 4.2 ohms R isolation = 15K

$$\frac{10V}{0.055uA} = \text{R correction} = 181M$$

UltraVolt, Inc.
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Ronkonkoma, NY 11779
1−631−471−4444

Title: TYPICAL HVPS CONNECTIONS − Eout MONITOR

Size	Number	Rev.
A	UV− HVPS−CONN−15	C1

Date 6/5/00	Drawn By M.Z.
Filename UV-HVPS-CONN-15P3_revC1.dwg	Sheet 3 Of 3