



$(1 f/b + 1 t/p) * R \text{ sense} = E \text{ error}$
 $\frac{1KV}{10M + 46.6K} = 1 f/b = 0.0000995 = 99.5\mu A$
 $(99.5\mu A + 98.9\mu A) * 4.2 \text{ ohms} = E \text{ error} = 0.83mV$
 $\frac{E \text{ error}}{R \text{ isolation}} = I \text{ correction}$
 $\frac{0.83mV}{15K} = 1 t/p = 0.0000989 = 98.9\mu A$
 $\frac{E \text{ out Monitor}}{I \text{ correction}} = R \text{ correction}$
 $\frac{10V}{0.055\mu A} = R \text{ correction} = 181M$

Title		UltraVolt, Inc.	
1800 Ocean Ave. Frnt		Ronkonkomo, NY 11779	
1-631-471-4444			
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

Typical HVPS Connections - Eout Monitor
 1A 24 -N20 - F
 LVP5
 +
 -
 0 TO +84 mV
 0 TO -10 VDC
 0 TO +84 mV
 0 TO +84 mV
 HV OUTPUT
 HV OUTPUT
 HV GND RET
 CHASSIS GND (OPTIONAL)
 HV RETURN GND