

## HV Shunt Regulator - Parts List

Name	Description	Part No.	Distrib	QTY
T1	Transfo 15V external supply, 15V, 0.334A	TE70023-ND	Digikey	1
L1	Inductor, 1mH, 0.28A, pcb insert mount	434-01-102J	Mouser	1
L2	Inductor, 2.2mH, 0.18A	434-01-222J	Mouser	1
D1	1N4007, Diode		Digikey	1
D8	1N4744A, 15V, 1W Zener Diode, DO-41	1N4744A-TPCT-ND	Digikey	1
D3	1N4739A, 9.1V, 1W Zener Diode, DO-41	1N4739A-TPCT-ND	Digikey	1
T1	LND150N3, MOSFETs - Depletion N-Channel 500V	689-LND150N3-G	Mouser	1
T2,4	IRF830, MOSFET N-CH 500V 5A TO-220AB	IRF830A-ND	Digikey	2
T3,5	2SK369-V, JFET	2SK369	ebay	2
U1	OPA656, IC OPAMP WDBND VFB FETIN SOIC-8	595-OPA656U	Mouser	1
U2,3	TL431, IC SHUNT REG ADJ PREC 1% TO-92	ZTL431ACSCT-ND	Digikey	2
U4	LT1085CT, IC LDO REG ADJUSTABLE 3A TO-220	LT1085CT-ND	Digikey	1
C1,2,4	Cap. 1uF, 630V, MKP BC	BC1850-ND	Digikey	3
C3	Cap. 33uF, 16V, OSCON 94SA Vishay	16F3759	Newark	1
C5	Cap. 10uF, 16V, OSCON 94SL Vishay	16F3795	Newark	1
C6,11	Cap. 100nF, 50V, Ceramic X7R, Kemet	399-4264-ND	Digikey	2
C7,14	Cap. 10nF, 50V, Ceramic X7R, EPCOS	495-1065-1-ND	Digikey	2
C8	Cap. 10uF, 25V, OSCON 94SC Vishay	16F3782	Newark	1
C9,9A	Cap. 22uF, 16V, OSCON 94SL Vishay	16F3795	Newark	2
C10	Cap. 4.7uF, 10V, OSCON 94SC Vishay	16F3772	Newark	1
C13	Cap. 10pF, Silver Mica		Local	1
R16	Pot. 100R, 25-Multiturns, Top, Bourns	03F3875	Newark	1
R3	Pot. 5K, 25-Multiturns, Top, Bourns	3296W-502-ND	Digikey	1
R1	30.1R, resistor 1 % MF, 1/4W, Yageo	30.1XBK-ND	Digikey	1
R2,7	301K, resistor 1 % MF, 1/2W, Phoenix SFR16S	PPC301KXCT-ND	Digikey	2
R4	10R, resistor 1 % MF, 1/4W, Yageo	10.0XBK-ND	Digikey	1
R5,21	100R, resistor 1 % MF, 1/4W, Yageo	100XBK-ND	Digikey	2
R6	20R, resistor 1 % MF, 1/4W, Yageo	20.0XBK-ND	Digikey	1
R8	200R, resistor 1 % MF, 1/4W, Yageo	200XBK-ND	Digikey	1
R9,13	20.0K, resistor 1 % MF, 1/4W, Yageo	20.0KXBK-ND	Digikey	2
R10	1.65K, resistor 1 % MF, 1/2W, Phoenix SFR16S	PPC1.65KXCT-ND	Digikey	1
R11	121R, resistor 1 % MF, 1/4W, Yageo	121XBK-ND	Digikey	1
R12	10R, resistor 1 % MF, 1/2W, Phoenix SFR16S	PPC10.0XCT-ND	Digikey	1
R14	221R, resistor 1 % MF, 1/2W, Phoenix SFR16S	PPC221XCT-ND	Digikey	1
R15	475K, resistor 1 % MF, 1/4W, Yageo	475KXBK-ND	Digikey	1
R17	4.70K, resistor 1 % MF, 1/4W, Yageo	4.75KXBK-ND	Digikey	1
R18,19	150K, resistor 1 % MF, 1/2W, Phoenix SFR16S	PPC150KXCT-ND	Digikey	2
R22	11.0K, resistor 1 % MF, 1/4W, Yageo	11.0KXBK-ND	Digikey	1
Heatsink 1	Heatsink H25.4 X L34.9 X W12.7, Black	HS190-ND	Digikey	1
Heatsink 2	Heatsink H25.4 X L41.9 X W25.4, Black	HS276-ND	Digikey	1