Schematic diagram — components and labels:

J1 Pin Header — **HV** — **D1** ES1D — **HV**

U1 LT_LTC7138

Pin	Signal		Pin	Signal
3	VIN		1	SW
14	RUN		16	ANODE
12	OVLO		9	VFB
5	FBO		10	SS
11	ISET		7	VP1 / VPRG1
	GND / GND (8, 17)		6	VP2 / VPRG2

R3 200K
R4 500R
R5 2.2K
R9 OPT

C6 OPT
C5 22u

L1 470u
D2 ES1D — **HV**
R1 200K
R10 13K
R2 51K

R6 0R
R8 0R
C7 100n

C1 22u
C2 OPT
C3 OPT

J2 Pin Header — VOUT
J3 Pin Header
J4 Pin Header

GND

HP8555A A9 V3

Variant name	[No Variations]	
Number:	HP855A_A9_V3	Revision: 01
Date:	1/3/2020	Sheet 1 of 1
Drawn by	J. Stepanian	
Verified by:	J. Stepanian	

Comment	Description	Designator	Footprint	LibRef	Quantity
22u	CAP Cnom Vcap Ptol D	C1	CAP_1210_M	CAP_1210	1
OPT	CAP Cnom Vcap Ptol D	C2	CAP_1210_M	CAP_1210	1
OPT	CAP Cnom Vcap Ptol D	C3	CAP_ALU_GEN	CAP_ALU_GEN	1
22u	CAP Cnom Vcap Ptol D	C5	CAP_2220_M	CAP_2220	1
OPT	CAP Cnom Vcap Ptol D	C6	CAP_ALU_GEN	CAP_ALU_GEN	1
100n	CAP 100nF Vcap Ptol D	C7	CAP_0603_M	CAP_0603	1
ES1D	DIODE 200V 1A SMA	D1	ES1D	ES1D	1
ES1D	DIODE 200V 1A SMA	D2	ES1D	ES1D	1
Pin Header	Pin Header 0.1" 1pos	J1	PIN_HEADER_1POS	PIN_HEADER_1POS	1
Pin Header	Pin Header 0.1" 1pos	J2	PIN_HEADER_1POS	PIN_HEADER_1POS	1
Pin Header	Pin Header 0.1" 1pos	J3	PIN_HEADER_1POS	PIN_HEADER_1POS	1
Pin Header	Pin Header 0.1" 1pos	J4	PIN_HEADER_1POS	PIN_HEADER_1POS	1
470u	IND Lind Ltol Imax Rdc	L1	TDK_SLF12555T	TDK_SLF12555	1
200K	RES OPT 1/5W 0805	R1	RES_0603_M	RES_0805	1
51K	RES 51K 1/5W 0805	R2	RES_0603_M	RES_0805	1
200K	RES 200K 1/5W 0805	R3	RES_0603_M	RES_0805	1
500R	RES 500R 1/5W 0805	R4	RES_0603_M	RES_0805	1
2.2K	RES 2.2K 1/5W 0805	R5	RES_0603_M	RES_0805	1
0R	RES 0R 1/5W 0603	R6	RES_0603_M	RES_0603	1
0R	RES 0R 1/5W 0603	R8	RES_0603_M	RES_0603	1
OPT	RES OPT 1/5W 0603	R9	RES_0603_M	RES_0603	1
13K	RES 13K 1/5W 0805	R10	RES_0603_M	RES_0805	1
LT_LTC7138	Step Down IC 140V 40	U1	LT_LTC7138	LT_LTC7138	1