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Variant: 001

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### Power Stage for <100VIN DC/DC Converters

Designator	Description	Manufacturer	PartNumber	Quantity
!PCB	Printed Circuit Board	Any	TIDA-050022	1
C4	CAP, CERM, 1 $\mu$ F, 25 V, +/- 10%, X5R, 0805	AVX	08053D105KAT2A	1
C5, C10	CAP, CERM, 0.1 $\mu$ F, 25 V, +/- 10%, X7R, 0603	TDK	C1608X7R1E104K	2
C6, C14	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0402	MuRata	GRM155R71H102KA01D	2
C7	CAP, AL, 100 $\mu$ F, 100 V, +/- 20%, TH	Panasonic	ECA-2AHG101	1
C8	CAP, CERM, 0.1 $\mu$ F, 250 V, +/- 10%, X7R, 1210	MuRata	GRM32DR72E104KW01L	1
C9	CAP, CERM, 3.3 $\mu$ F, 250 V, +/- 20%, X5R, 6x5x5mm	TDK	CKG57NX5R1H226M500JH	1
C11, C13	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0402	MuRata	GRM155R71H221KA01D	2
D2, D3	Diode, Schottky, 30 V, 1 A, AEC-Q101, MicroSMP	Vishay-Semiconductor	MSS1P3L-M3/89A	2
H1, H2, H3, H4	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	B&F Fastener Supply	NY PMS 440 0025 PH	4
H5, H6, H7, H8	Standoff, Hex, 0.5"L #4-40 Nylon	Keystone	1902C	4
J1	TERM BLOCK 3POS 5.08MM, TH	Phoenix Contact	1715734	1
J2, J4, J5	Header, 100mil, 2x1, Gold, TH	Sullins Connector Solutions	PBC02SAAN	3
J3	Header, 100mil, 3x1, Gold, TH	Samtec	TSW-103-07-G-S	1
Q1, Q2	MOSFET, N-CH, 100 V, 16 A, DQJ0008A (VSONP-8)	Texas Instruments	CSD19531Q5A	2
R1	RES, 10.0 k, 0.1%, 0.2 W, AEC-Q200 Grade 0, 0805	Vishay/Beyschlag	MCU0805MD1002BP100	1
R3, R7	RES, 2.00, 1%, 0.125 W, 0603	Vishay/Beyschlag	MCT06030C2008FP500	2
R4, R6	RES, 10.0, 1%, 0.1 W, 0603	Yageo America	RC0603FR-0710RL	2
R5, R9	RES, 10 k, 5%, 0.1 W, 0603	Yageo America	RC0603JR-0710KL	2
R10, R11	RES, 0, 5%, 0.125 W, 0603	Vishay/Beyschlag	MCT06030Z0000ZP500	2
TP1, TP2, TP3, TP4, TP5, TP6	Test Point, Compact, Red, TH	Keystone	5005	6
TP7, TP8, TP9, TP10, TP11, TP12, TP13	Test Point, Compact, Black, TH	Keystone	5006	7
U1	120-V, 3-A Peak, 5-V UVLO, 3x3, High-Frequency, High-Side/Low-Side Driver, DRC0010J (VSON-10)	Texas Instruments	UCC27282DRCR	1

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