

**holdup boost converter 6.5V @ 2Amps**

Quantity	Designator	Value	Description	PackageReference	PartNumber	Manufacturer
2	C1, C9	330pF	CAP, CERM, 330pF, 50V, +/-10%, X7R, 0603	0603	GRM188R71H331KA01D	MuRata
2	C2, C7	1uF	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603	0603	GRM188R71E105KA12D	MuRata
1	C3	4700pF	CAP, CERM, 4700pF, 50V, +/-10%, X7R, 0603	0603	GRM188R71H472KA01D	MuRata
1	C4	0.047uF	CAP, CERM, 0.047uF, 25V, +/-10%, X7R, 0603	0603	GRM188R71E473KA01D	MuRata
1	C5	0.1uF	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603	GRM188R71H104KA93D	MuRata
7	C8, C10, C11, C12, C13, C14, C27	22uF	CAP, CERM, 22uF, 25V, +/-10%, X7R, 1210	1210	GRM32ER71E226KE15L	MuRata
1	C100	2200pF	CAP, CERM, 2200pF, 25V, +/-10%, X7R, 0603	0603	GRM188R71E222KA01D	MuRata
1	D1	30V	Diode, Schottky, 30V, 5A, SMC	SMC	B530C-13-F	Diodes Inc.
1	D100	30V	Diode, Schottky, 30V, 0.2A, SOT-23	SOT-23	BAT54C-7-F	Diodes Inc.
2	J1, J2		Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm	ED555/2DS	On-Shore Technology
1	L1	10uH	Inductor, Shielded Drum Core, Ferrite, 10uH, 9A, 0.0144 ohm, SMD	12.1x9.5x11.4mm	7443321000	Würth Elektronik eiSos
1	Q3	30V	MOSFET, N-CH, 30V, 65A, SON 5x6mm	SON 5x6mm	CSD17527Q5A	Texas Instruments
1	R1	182k	RES, 182k ohm, 1%, 0.1W, 0603	0603	CRCW0603182KFKEA	Vishay-Dale
1	R2	2.87k	RES, 2.87k ohm, 1%, 0.1W, 0603	0603	CRCW06032K87FKEA	Vishay-Dale
1	R3	2.00k	RES, 2.00k ohm, 1%, 0.1W, 0603	0603	CRCW06032K00FKEA	Vishay-Dale
1	R5	16.5k	RES, 16.5k ohm, 1%, 0.1W, 0603	0603	CRCW060316K5FKEA	Vishay-Dale
1	R7	0	RES, 0 ohm, 5%, 0.1W, 0603	0603	CRCW06030000Z0EA	Vishay-Dale
1	R9	49.9	RES, 49.9 ohm, 1%, 0.1W, 0603	0603	CRCW060349R9FKEA	Vishay-Dale
1	R10	1.0k	RES, 1.0k ohm, 5%, 0.1W, 0603	0603	CRCW06031K00JNEA	Vishay-Dale
1	R11	0.02	RES, 0.02 ohm, 1%, 1W, 1206	1206	WSLP1206R0200FEA	Vishay-Dale
1	R100	1.80	RES, 1.80 ohm, 1%, 0.25W, 1206	1206	RC1206FR-071R8L	Yageo America
3	TP1, TP8, TP11	Black	Test Point, Miniature, Black, TH	Black Miniature Testpoint	5001	Keystone

Quantity	Designator	Value	Description	PackageReference	PartNumber	Manufacturer
2	TP2, TP10	Red	Test Point, Miniature, Red, TH	Red Miniature Testpoint	5000	Keystone
1	TP4	Orange	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint	5003	Keystone
2	TP5, TP7	White	Test Point, Miniature, White, TH	White Miniature Testpoint	5002	Keystone
1	U1		4.5-V TO 52-V INPUT CURRENT MODE BOOST CONTROLLER, DGQ0010D	DGQ0010D	TPS40210DGQ	Texas Instruments

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