

**Bill of Materials**

Reference	Qty	Part Number	Description	Package	Manufacture
AD7	1	BAT54A	BAT54A	SOT-23_123	
C1	1		1 $\mu$ F/50V	C-0805	
C2	1		0.1 $\mu$ F	C-0603	
C3	1		22pF	C-0603	
C4	1		0.22 $\mu$ F/50V	C-0603	
C5, C17, C18	3		10 $\mu$ F/16V	C-1206_3-3	
C6	1		1 $\mu$ F/16V	C-1206_3-3	
C7, C14	2		470 $\mu$ F/16V	EC-2P/10	
C8, C9, C15	3		10 $\mu$ F/6.3V	C-0805	
C10, C11, C16	3		820 $\mu$ F/2.5V	EC-2P_8_1	
C12	1		6.8nF	C-0603	
C13	1		2.2nF	C-0603	
C19, C20, C21, C22, C23, C24, C43, C44, C45, C57	10		NC	C-0805	
C25, C26	2		NC	EC-2P_8_1	
C27, C28, C29	3		NC	c-2512	
C30, C31, C32	3		NC	C-0603	
C46	1		0.01 $\mu$ F	C-0603	
D1	1	1N4148	1N4148	D-0805_2-3368	
FK1, FK2, FK3, FK4	4		SIP-1P-TP	FK_1	
GP1	1		VCC	SIP-1P-GP	
GP2	1		EXT_BOOT	SIP-1P-GP	
GP3, GP4, GP5	3		GND	SIP-1P-GP	
GP6	1		BOOT	SIP-1P-GP	
GP7	1		VIN	SIP-1P-GP	
JP1, JP2	2		SIP-2P	SIP-2P	
J1, J2, J3, J4	4		NC	sip-1p_p441d165	
J12, J13, J19, J20	4		NC	SIP-4P-PW-2	
L1	1		NC	L-2P/387	
L2	1		1 $\mu$ H	L-GSDRH127	
L3	1		NC	I-2p/9.82	
L4	1		NC	L-GMAR-V3R2-151311	
Q1, Q6	2	IPD09N03LA	IPD09N03LA	DPAK_GDS	
Q2, Q7	2	IPD06N03LA	IPD06N03LA	DPAK_GDS	
Q3, Q4, Q8, Q9	4		NC	Q-TDSON-8	
Q5	1		2N7002	SOT-23_123	
R1, R5	2		2.2	R-0603	
R2	1		22K	R-0603	

Reference	Qty	Part Number	Description	Package	Manufacture
R3	1		13K	R-0603	
R4, R8	2		1K	R-0603	
R6, R14	2		10K	R-0603	
R7, R13, R19, R20, R21	5		0	R-0603	
R9	1		75	R-0603	
R10	1		1.1K	R-0603	
R11	1		1	R-0603	
R12	1		20K	R-0603	
R15, R22	2		NC	R-0603	
R16, R17, R18	3		short	CP-0805C	
TP6	1		VOS	SIP-1P-TP	
TP7	1		PGOOD	SIP-1P-TP	
TP8	1		PHASE	SIP-1P-TP	
TP9	1		UG	SIP-1P-TP	
TP10	1		LG	SIP-1P-TP	
TP11	1		COMP	SIP-1P-TP	
TP12	1		FB	SIP-1P-TP	
U1	1	RT8129	RT8129	WDFN-10L 3x3	RICHTEK
Z1, Z2, Z3, Z4	4		PAD6	SIP-1P-M	

## **More Information**

For more information, please find the related datasheet or application notes from Richtek website <http://www.richtek.com>.

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