

Bill of Materials

Reference	Qty	Part Number	Description	Package	Manufacture
U4	1	RT8130BGQW	DC/DC Controller	WDFN-10L 3x3	RICHTEK
C1	1	1206X7R 2200nF	2.2 μ F/50V	X7R/1206	TDK
C2	1	0603X7R 4700nF \pm 10% 50V	4.7nF	X7R/0603	TDK
C3	1	0603NPO 82pF \pm 5% 50V	82pF	NPO/0603	WALSIN
C4	1	C1608X7R1H104KT000N	0.1 μ F/50V	X7R/0603	TDK
C5, C6, C17, C18	4	C3216X5R1H106KT000N	10 μ F/25V	X5R/1206	TDK
C7, C14	1	1206X7R 2200nF \pm 10% 50V	1000 μ F/25V		
C9	1	C2012X5R1C106KTK0HN	10 μ F/16V		TDK
C10, C11, C16	1		470 μ F/16V		
C12	1		820pF	C0603	WALSIN
C13	1		2.2nF	C0603	WALSIN
D1	1	1N4148_R1_00001	1N4148		RANJIT
L2	1	MMD-10DZ-2R2M-X1	2.2 μ H		Mag.Layers
Q1	1	SIRA14DP			VISHAY
Q2, Q7	2	SIRA06DP			VISHAY
Q5	1	2N7002			RANJIT
R1	1		2.2	R0603	
R2	1		8.2K	R0603	
R5, R7, R13, R15, R19, R20	6		0	R0603	
R6, R14	2		10K	R0603	
R8	1		14.3K	R0603	
R9	1		3K	R0603	
R10	1		1K	R0603	
R11	1		1	R0603	
R12	1		15K	R0603	
R16, R17, R18	3		0	R0603	

More Information

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

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