

Bill of Materials

VIN = 12V, VOUT 5V / 0.7A, fsw = 2100kHz						
Reference	Count	Part Number	Value	Description	Package	Manufacturer
U1	1	RTQ2130BGQW-QT	RTQ2130B-QT	Step-Down Converter	WDFN-8SL 2x3	RICHTEK
C1, C2, C3, C4, EC1	5	NA	NA	Optional for EMI requirement	NA	--
C5	1	1206B225K500CT	2.2μF	Capacitor, ceramic, 50V, X7R, ±10%	1206	WALSIN
C6, C7, C10	3	0603B104K500CT	0.1μF	Capacitor, ceramic, 50V, X7R, ±10%	0603	WALSIN
C8, C9	2	TMK316AB7106KL-T	10μF	Capacitor, ceramic, 25V, X7R, ±10%	1206	TAIYO YUDEN
C11	1	GCM188R71C105KA64D	1μF	Capacitor, ceramic, 16V, X7R, ±10%	0603	MURATA
C12	1	NA	NA	Optional	NA	--
C13	1	NA	NA	Optional	NA	--
C14	1	GCE188R71H152KA	1.5nF	Capacitor, ceramic, 50V, X7R, ±10%	0603	MURATA
L1, L2	2	NA	NA	Optional for EMI requirement	NA	--
L3	1	WE-74437324047	4.7μH	Inductor, SMT, ISAT = 2.45A, 95mΩ	4.45x4.06x1.8mm	Würth Elektronik
R1	1	WR06X1053	105k	Resistor, chip, 1/10W, 1%	0603	WALSIN
R2	1	WR06X1003	100k	Resistor, chip, 1/10W, 1%	0603	WALSIN
R3	1	WR06X3742	37.4k	Resistor, chip, 1/10W, 1%	0603	WALSIN
R4	1	WR06X2002	20k	Resistor, chip, 1/10W, 1%	0603	WALSIN

More Information

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

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