

## Bill of Materials

VIN = 12V, VOUT 5V / 0.7A, fsw = 2100kHz						
Reference	Count	Part Number	Value	Description	Package	Manufacturer
U1	1	RTQ2130-50BGQW-QT	RTQ2130B-50	Step-Down Converter	WDFN-8SL 2x3	RICHTEK
C1, C2, C3, EC1, C4	5	NA	NA	Optional for EMI requirement	NA	--
C5	1	GCM31CR71H225KA	2.2 $\mu$ F	Capacitor, ceramic, 50V, X7R, $\pm$ 10%	1206	MURATA
C6, C7, C10	3	CGA3E2X7R1H104K	0.1 $\mu$ F	Capacitor, ceramic, 50V, X7R, $\pm$ 10%	0603	TDK
C8, C9	2	GCM31CC71E106KA	10 $\mu$ F	Capacitor, ceramic, 25V, X7S, $\pm$ 10%	1206	MURATA
C11	1	GCM188R71C105KA	1 $\mu$ F	Capacitor, ceramic, 16V, X7R, $\pm$ 10%	0603	MURATA
C12	1	NA	NA	Optional	NA	--
C13	1	NA	NA	Optional	NA	--
C14	1	GCE188R71H152KA	1.5nF	Capacitor, ceramic, 50V, X7R, $\pm$ 10%	0603	MURATA
L1, L2	2	NA	NA	Optional for EMI requirement	NA	--
L3	1	WE-74437324047	4.7 $\mu$ H	Inductor, SMT, ISAT = 4A, 95m $\Omega$	4.45mmx 4.06mmx1.8mm	Wurth Elektronik
R1	1	NA	short	NA	0603	--
R2	1	WR06X1003	100k $\Omega$	Resistor, chip, 1/10W, 1%	0603	WALSIN
R3	1	WR06X3742	37.4k $\Omega$	Resistor, chip, 1/10W, 1%	0603	WALSIN
R4	1	NA	NA	NA	NA	--

## More Information

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

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