

Bill of Materials

VIN = 12V, VOUT = 5V, IOUT = 3A, fsw = 2100kHz						
Reference	Count	Part Number	Value	Description	Package	Manufacturer
U4	1	RTQ2104GSP-QA	RTQ2104GSP-QA	Step-Down Converter	SOP-8 (Exposed Pad)	RICHTEK
CFF1	1	0603B121K500CT	120pF	Capacitor, Ceramic, 50V, X7R	0603	WALSIN
CVCC1	1	GRM21BR71A106KE51L	10μF	Capacitor, Ceramic, 10V, X7R	0805	MURATA
C3	1	UMK316AB7475KL-T	4.7μF	Capacitor, Ceramic, 50V, X7R	1206	TAIYO YUDEN
C4, C7, C16, CBOOT1	4	0603B104K500CT	0.1μF	Capacitor, Ceramic, 50V, X7R	0603	WALSIN
C5, C6	2	LMK316AB7226KL-TR	22μF	Capacitor, Ceramic, 10V, X7R	1206	TAIYO YUDEN
R1	1	WR06X1053FTL	105k	Resistor, Chip, 1/10W, 1%	0603	WALSIN
R2	1	WR06X2002FTL	20k	Resistor, Chip, 1/10W, 1%	0603	WALSIN
RBOOT1	1	WR06X10R0FTL	10	Resistor, Chip, 1/10W, 1%	0603	WALSIN
RPG1, REN1	2	WR06X1003FTL	100k	Resistor, Chip, 1/10W, 1%	0603	WALSIN
L1	1	78439344022	2.2μH	Inductor, Isat = 7.5A, 10.5mΩ	6.65x6.45x3mm	Würth Elektronik

More Information

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

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