

## Bill of Materials

VIN = 12V, VOUT = 5V, IOUT = 0.5A, fsw = 500kHz						
Reference	Count	Part Number	Value	Description	Package	Manufacturer
U1	1	RTQ6360GSP	RTQ6360GSP	Step-Down Converter	SOP-8 (Exposed pad)	RICHTEK
C3, C4	2	GRM31CR72A225KA73L	2.2μF	Capacitor, Ceramic, 100V, X7R	1206	MURATA
C5	1	0603B182K500CT	1.8nF	Capacitor, Ceramic, 50V, X7R	0603	WALSIN
C7	1	GRM32ER61C476KE15L	47μF	Capacitor, Ceramic, 16V, X5R	1210	MURATA
C11	1	0603B104K500CT	0.1μF	Capacitor, ceramic, 50V, X7R	0603	WALSIN
CBOOT	1	0603B104K500CT	0.1μF	Capacitor, Ceramic, 50V, X7R	0603	WALSIN
D1	1	VS-10BQ060-M3	Schottky Diode, 60V/1A	Schottky Diode, 60V/1A	SMB	VISHAY
L1	1	744777147	47μH	Inductor, Isat = 1.1A, 170mΩ		WURTH ELEKTRONIK
R1	1	WR06X5232FTL	52.3k	Resistor, Chip, 1/10W, 1%	0603	WALSIN
R2	1	WR06X1002FTL	10k	Resistor, Chip, 1/10W, 1%	0603	WALSIN
R3	1	RTT031693FTP	169k	Resistor, Chip, 1/10W, 1%	0603	RALEC
R7, RBOOT	2	WR06X000 PTL	0	Resistor, Chip, 1/10W, 1%	0603	WALSIN
RT	1	RTT032323FTP	232k	Resistor, Chip, 1/10W, 1%	0603	RALEC

## More Information

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

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