

Bill of Materials

VIN = 12V, VOUT = 5.0V, IOUT = 3.5A, fsw = 500kHz						
Reference	Count	Part Number	Value	Description	Package	Manufacturer
U1	1	RTQ6363GSP	RTQ6363GSP	Step-Down Converter	SOP-8 (Exposed pad)	RICHTEK
C3, C4	2	GRM31CR72A225KA73L	2.2 μ F	Capacitor, Ceramic, 100V, X7R	1206	MURATA
C5	1	0603B822K500CT	8.2nF	Capacitor, Ceramic, 50V, X7R	0603	WALSIN
C6	1	0603N101J500CT	100pF	Capacitor, Ceramic, 50V, NPO	0603	WALSIN
C7, C8	2	GRM32ER61C476KE15L	47 μ F	Capacitor, Ceramic, 16V, X5R	1210	MURATA
C11	1	0603B104K500CT	0.1 μ F	Capacitor, Ceramic, 50V, X7R	0603	WALSIN
CBOOT	1	0603B104K500CT	0.1 μ F	Capacitor, Ceramic, 50V, X7R	0603	WALSIN
D1	1	SS5P6	Schottky Diode, 60V/5A	Schottky Diode, 60V/5A	SMB	VISHAY
L1	1	VCHA075D-100MS6	10 μ H	Inductor, Isat = 8A, 34.5m Ω		Cyntec
R1	1	WR06X5232FTL	52.3k	Resistor, Chip, 1/10W, 1%	0603	WALSIN
R2, R3	2	WR06X1002FTL	10k	Resistor, Chip, 1/10W, 1%	0603	WALSIN
R7, RBOOT	2	WR06X000 PTL	0	Resistor, Chip, 1/10W, 1%	0603	WALSIN
RT	1	WR06X2493FTL	249k	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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