

Bill of Materials

VIN = 12V, VOUT = 5.0V, IOUT = 0.5A, fsw = 500kHz						
Reference	Count	Part Number	Value	Description	Package	Manufacturer
U1	1	RTQ6340GQW	RTQ6340GQW	Step-Down Converter	WDFN-10SL 3x3	RICHTEK
C3, C4	2	HMK316AC7225KLHTE	2.2μF	Capacitor, Ceramic, 100V, X7R	1206	Taiyo Yuden
C5	1	0603B182K500CT	1.8nF	Capacitor, Ceramic, 50V, X7R	0603	WALSIN
C6	1	0603N100J500CT	10pF	Capacitor, Ceramic, 50V, NPO	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
CSS	1	0603B103K500CT	10nF	Capacitor, Ceramic, 50V, X7R	0603	WALSIN
D1	1	VS-10BQ060-M3	60V/1A	Schottky Diode	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, R8	2	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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