

Bill of Materials

VIN = 12V, VOUT = 5.0V, IOUT = 1.5A, fsw = 500kHz						
Reference	Count	Part Number	Value	Description	Package	Manufacturer
U1	1	RTQ6341GQW	RTQ6341GQW	Step-Down Converter	WDFN-10SL 3x3	RICHTEK
C3, C4	2	HMK316AC7225KLHTE	2.2 μ F	Capacitor, Ceramic, 100V, X7R	1206	WALSIN
C5	1	0603B182K500CT	1.8nF	Capacitor, Ceramic, 50V, X7R	0603	WALSIN
C6	1	0603N180J500CT	18pF	Capacitor, Ceramic, 50V, NPO	0603	WALSIN
C7	1	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
CSS	1	0603B103K500CT	10nF	Capacitor, Ceramic, 50V, X7R	0603	WALSIN
D1	1	SS26	60V/2A	Schottky Diode	SMB	ON Semiconductor
L1	1	ETQP3M150KVN	15 μ H	Inductor, Isat = 5.1A, 99.2m Ω	--	Panasonic
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	WR06X5602FTL	56k	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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