

Bill of Materials

VIN = 12V, VOUT = 1.05V, IOUT = 8A, fsw = 500kHz						
Reference	Count	Part Number	Value	Description	Package	Manufacturer
U1	1	RT6338A	RT6338AGQUF	Buck Converter	UQFN-23L 3x3 (FC)	RICHTEK
C3	1	0603N680J500CT	68pF	Capacitor, Ceramic, 50V, NPO	0603	WALSN
C4, C5, C6, C7, C8, C9	6	0805X226M6R3CT	22μF	Capacitor, Ceramic, 6.3V, X5R	0805	WALSN
C18, C41	2	0603B104K500CT	0.1μF	Capacitor, Ceramic, 50V, X7R	0603	WALSN
C22, C23	2	0805X106K250CT	10μF	Capacitor, Ceramic, 25V, X5R	0805	WALSN
C28	1	0603X475K6R3CT	4.7μF	Capacitor, Ceramic, 6.3V, X5R	0603	WALSN
C40	1	0603X475K6R3CT	4.7μF	Capacitor, Ceramic, 6.3V, X5R	0603	WALSN
L1	1	PEUE063T-R68MS	0.68μH	Inductor, Isat = 18.5A, 4.3mΩ	7.3x6.8x3mm	CYNTEC
R1	1	RTT033092FTP	30.9k	Resistor, Chip, 1/10W, 1%	0603	RALEC
R2	1	RMC16K4122FTP	41.2k	Resistor, Chip, 1/10W, 1%	0603	KAMAYA
R4, R6, R9, R10, R11	5	WR06X000 PTL	0	Resistor, Chip, 1/10W, 1%	0603	WALSIN
R8	1	WR06X1003FTL	100k	Resistor, Chip, 1/10W, 1%	0603	WALSIN
R17	1	WR06W1R10FTL	1.1	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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