

Bill of Materials

VIN = 12V, VOUT = 1.05V, IOUT = 10A, fsw = 500kHz						
Reference	Count	Part Number	Value	Description	Package	Manufacturer
U1	1	RT6310A	RT6310AGQUF	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	WR06X4122FTL	41.2k	Resistor, Chip, 1/10W, 1%	0603	WALSIN
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>.

Important Notice for Richtek Evaluation Board

THIS DOCUMENT IS FOR REFERENCE ONLY, NOTHING CONTAINED IN THIS DOCUMENT SHALL BE CONSTRUED AS RICHTEK'S WARRANTY, EXPRESS OR IMPLIED, UNDER CONTRACT, TORT OR STATUTORY, WITH RESPECT TO THE PRESENTATION HEREIN. IN NO EVENT SHALL RICHTEK BE LIABLE TO BUYER OR USER FOR ANY AND ALL DAMAGES INCLUDING WITHOUT LIMITATION TO DIRECT, INDIRECT, SPECIAL, PUNITIVE OR CONSEQUENTIAL DAMAGES.