

Bill of Materials

VIN = 12V, VOUT = LED Load Board, IOUT = 80mA						
Reference	Count	Part Number	Value	Description	Package	Manufacturer
U4	1	RT8577AGQW	RT8577A	LED Driver	WQFN-20L 5x5	RICHTEK
C19, C20, C21	3	1206B105K500CT	1 μ F	Capacitor, Ceramic 50V/X7R	1206	WALSIN
C22	1	0603B224K250CT	0.22 μ F	Capacitor, Ceramic 50V/X7R	0603	WALSIN
C24, C34	2	GRM32ER71H106KA12L	10 μ F	Capacitor, Ceramic 50V/X7R	1210	muRata
C25, C26, C27, C28, C30, C32	6	UMK316AB7475KL-T	4.7 μ F	Capacitor, Ceramic 50V/X7R	1206	TAIYO YUDEN
C29	1	LHK221M50V1015	220 μ F	Capacitor, Ceramic 50V	EC-2P/10	JACKCON
C33	1	0603B121K500CT	120pF	Capacitor, Ceramic 50V/X7R	0603	WALSIN
D2	1	SR26	2A/60V	Schottky Diode	SMA	PANJIT
L4	1	NR8040T150M	15 μ H	Power Inductor	L-D12_5	TAIYO YUDEN
Q5	1	DMN10H170SK3-13	59A/60V	MOSFET	TO-252	DIODES
R19	1	CR2512FR100E04Z	150mR	Resistor	2512	EVER OHMS
R22, R25, R40	3	WR06X1003FTL	100k	Resistor	0603	WALSIN
R23	1	WR06W1804FTL	1.8M	Resistor	0603	WALSIN
R24	1	WR08X10R0FTL	10R	Resistor	CP-0805C	WALSIN
R28	1	WR06X5600FTL	560R	Resistor	0603	WALSIN
R29	1	WR06W5R10FTL	5.1R	Resistor	0603	WALSIN
R30	1	RTT032002FTP	20k	Resistor	0603	WALSIN
R31	1	WR06X1000FTL	100R	Resistor	0603	WALSIN
R33	1	WR06X1802FTL	18k	Resistor	0603	WALSIN
R34	1	WR06X000 PTL	0R	Resistor	0603	WALSIN
R35, R37	2	WR06X5103FTL	510k	Resistor	0603	WALSIN
R36	1	WR06X1103FTL	110k	Resistor	0603	WALSIN
R39, R42	2	WR06X1001FTL	1k	Resistor	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.