

## Bill of Materials

Reference	Qty	Part number	Description	Package	Manufacture
U4	1	RT1650	RT1650	WL-CSP-48B 3x3.4 (BSC)	RICHTEK
U3	1	PMDPB80XP	dual P-channel MOSFET		NXP
U6	1	C22TCH-05XT-1XBLX	Micro-USB Connector		Cherng Weel
C1, C2, C3, C4	5	0603B473K500	47nF/50V/X7R	0603	WALSIN
C7, C10	2	0603B103K500	10nF/50V/X7R	0603	WALSIN
C8, C11	2	C1608X7R1H474KT	0.47μF/50V/X7R	0603	TDK
C9, C12	2	0603B223K500	22nF/50V/X7R	0603	WALSIN
C13, C15	2	GRM31CR71E106KA12L	10μF/25V/X7R	1206	muRata
C14, C17	1	C1608X7R1H104KT000N	0.1μF/25V/X7R	0603	TDK
C16	1	C2012X7R1E105KT	1μF/25V/X7R	0805	TDK
C18, C19	2	C1608X5R1E105KT000E	1μF/25V/X5R	0603	TDK
C36	1	0603N101J500	100pF/50V/NPO	0603	WALSIN
C38	1	0603B182K500	1.8nF/50V/X7R	0603	WALSIN
LED1	1	LNL-190UW-4H	LED		LighTop
LED2	1	LNL-191SUR	LED		LighTop
RNTC1	1		NC	0603	
RUSB1, RUSB2	2		NC	0603	
RUSB3	1	0R	0Ω	0603	
R14	1	24K	24kΩ	0603	
R15	1	10K	10kΩ	0603	
R11	1	1K5	1.5kΩ	0603	
Coil	1	WR483245-15F5-G	12.9μH		TDK

Enable thermal management : RNTC = NCP15WF104F03RC, R14 = 33k

## More Information

For more information, please find the related datasheet or application notes from Richtek website <http://www.richtek.com>.

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