

Bill of Materials

Reference	Count	Part Number	Value	Description	Package	Manufacturer
C132, C133	2	0603X105K250CT	1 μ F	Capacitor, Ceramic, 25V/X5R	0603	WALSIN
C205, C206, C4033, C4044, C4059	5	0603B104K500CT	0.1 μ F	Capacitor, Ceramic, 50V, X7R	0603	WALSIN
C703	1	0805B224K250CT	0.22 μ F	Capacitor, Ceramic, 25V, X7R	0805	WALSIN
C704	1	0805B105K250CT	1 μ F	Capacitor, Ceramic, 25V, X7R	0805	WALSIN
C4020	1	0805B105K500CT	1 μ F	Capacitor, Ceramic, 50V, X7R	0805	WALSIN
C4038, C4061, C4062	3	GRM32ER71H106KA12L	10 μ F	Capacitor, Ceramic, 50V, X7R	1210	MURATA
C4045, C4060	2	0805X226M250CT	22 μ F	Capacitor, Ceramic, 25V, X5R	0805	WALSIN
C4046, C4047	2	GRM32E61E226KE15L	22 μ F	Capacitor, Ceramic, 25V, X5R	1210	MURATA
C4048	1	35YXG220MEFC8X16	220 μ F	Capacitor, Ceramic, 35V	8x16x3.5mm	RUBYCON
C4050, C4051, C4052, C4053	4	GRM31CR61H106KA12L	10 μ F	Capacitor, Ceramic, 50V, X5R	1206	MURATA
C4057	1	0603B682K500CT	6.8nF	Capacitor, Ceramic, 50V, X7R	0603	WALSIN
C4065, C4066	2	0603N100J500CT	10pF	Capacitor, Ceramic, 50V, NPO	0603	WALSIN
C4067, C4068	2	0603B471K500CT	470pF	Capacitor, Ceramic, 50V, X7R	0603	WALSIN
C4069, C4070	2	0603B272K500CT	2.7nF	Capacitor, Ceramic, 50V, X7R	0603	WALSIN
CN411	1	121U-3CST-09CR	USB TYPE-C 3.1	USB TYPE-C 3.1	9.87x9.75mm	JEM
CN601	1		DC POWER JACK	DC POWER JACK	14.4x8.7mm	
D2, D3	2	MM5Z2V7	3.3V	Zener Diode	SOD523	SECOS
D7	1	BZG05C27	27V	Zener Diode	SMA/DO-214AC	VISHAY
D8	1	SMBJ24CA	SMBJ24CA	TVS Diodes SMBJ24CA	SMB/DO-214AA	FAIRCHILD
D11, D12, D13, D14	4	SX34	40V/3A	Schottky Diode	SMA/DO-214AC	PANJIT
D17	1	AZ4520-01F	25.5V	ESD Diode	1.6x1.0mm	Amazing

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L403	1	M10A1509MT-C	15μH	Inductor, 6A	11x10x3.8mm	Nichtek
L404	1	NR8040T4R7N	4.7μH	Inductor, 4.7A	8x8x4.2mm	TAIYO YUDEN
LED401, LED402, LED403, LED408	4	LNL-191SUR	LED_RED	LED_RED-0603	0603	LighTop
PMOS14	1	FDN352AP	FDN352AP	PMOS	SOT-23-3/ TO-236	FAIRCHILD
Q28, Q29, Q30, Q31	4	2N7002K	2N7002K	NMOS	SOT-23	PANJIT
Q404, Q405, Q406	3	DMG4435SSS	DMG4435SSS	PMOS	SOIC-8	DIODES
R8, R9, R10	3	RTT031001FTP	1k	Resistor, Chip, 1/10W, 1%	0603	RALEC
R101, R102, R104	3	WR06X22R0FTL	22	Resistor, Chip, 1/10W, 1%	0603	WALSIN
R103, R707, R4053, R4062, R4064, R4067, R4069, R4071, R4075, R4076, R4077, R4078, R4079, R4081, R4082, R4209, R4216, R4217, R4218, R4219	20	WR06X000 PTL	0	Resistor, Chip, 1/10W, 1%	0603	WALSIN
R129, R147	2	3520680RJT	680	Resistor, Chip, 1W, 5%	2512	TE Connectivity
R144, R708, R4070	3	WR06X1004FTL	1M	Resistor, Chip, 1/10W, 1%	0603	WALSIN

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R145, R4048, R4058, R4068, R4074, R4080, R4196, R4210, R4212, R4213, R4214, R4215	12	WR06X1002FTL	10k	Resistor, Chip, 1/10W, 1%	0603	WALSIN
R204, R666, R668, R705	4	WR06X1003FTL	100k	Resistor, Chip, 1/10W, 1%	0603	WALSIN
R654	1	WR06W1R00FTL	1	Resistor, Chip, 1/10W, 1%	0603	WALSIN
R667	1	WR06X2001FTL	2k	Resistor, Chip, 1/10W, 1%	0603	WALSIN
R4049	1	WR06X3002FTL	30k	Resistor, Chip, 1/10W, 1%	0603	WALSIN
R4054	1	WR06X4022FTL	40.2k	Resistor, Chip, 1/10W, 1%	0603	WALSIN
R4057	1	WR06X6204FTL	60.4k	Resistor, Chip, 1/10W, 1%	0603	WALSIN
R4060	1	RTT031693FTP	169k	Resistor, Chip, 1/10W, 1%	0603	RALEC
R4061	1	WR06X4702FTL	47k	Resistor, Chip, 1/10W, 1%	0603	WALSIN
R4063	1	WR06X1202FTL	12k	Resistor, Chip, 1/10W, 1%	0603	WALSIN
R4065	1	WR06X8201FTL	8.2k	Resistor, Chip, 1/10W, 1%	0603	WALSIN
R4066, R4208	2	WR06X5101FTL	5.1k	Resistor, Chip, 1/10W, 1%	0603	WALSIN
R4199	1	WR06X7502FTL	75k	Resistor, Chip, 1/10W, 1%	0603	WALSIN
R4200	1	WR06X2402FTL	24k	Resistor, Chip, 1/10W, 1%	0603	WALSIN
R4220	1	RTT035112FTP	51.1k	Resistor, Chip, 1/10W, 1%	0603	RALEC
R4221	1	WR06X1602FTL	16k	Resistor, Chip, 1/10W, 1%	0603	WALSIN
R4222	1	WR06X8452FTL	84.5k	Resistor, Chip, 1/10W, 1%	0603	WALSIN
U01	1	RT1716WSC	RT1716	Type-C Port Controller	WL-CSP-8B 1.38x1.34 (BSC)	RICHTEK
U2	1	HT85F2280	HT85F2280	MCU	LQFP7_48L	HOLTEK

Reference	Count	Part Number	Value	Description	Package	Manufacturer
U404	1	RT7272BGSP	RT7272B	Buck Converter	SOP-8 (Exposed Pad)	RICHTEK
U405	1	RT2875BQGCP	RT2875B	Buck Converter	TSSOP-14 (Exposed Pad)	RICHTEK
U702	1	RT9068-50GFP	RT9068	LDO	MSOP-8	RICHTEK
Y1	1	49S-012000-FX6B01	12MHz	Oscillator	HC-49S	AKER
ZD404, ZD405	2	BZT52B22-G	22V	Zener Diode	SOD-123	VISHAY

More Information

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

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