

PMP9765 - USB_Charger_with Cable_Compensation

Designator	Description	Manufacturer	PartNumber	Quantity
C1, C3, C5, C6	CAP, CERM, 10 µF, 25 V, +/- 20%, X5R, 0603	MuRata	GRM188R61E106MA73	4
C2, C4	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0402	MuRata	GRM155R71H471KA01D	2
C7	CAP, CERM, 0.1 µF, 6.3 V, +/- 10%, X7R, 0603	MuRata	GRM188R70J104KA01D	1
C8	CAP, CERM, 10 µF, 6.3 V, +/- 20%, X5R, 0603	MuRata	GRM188R60J106ME84	1
C9	CAP, CERM, 3300pF, 25V, +/-10%, X7R, 0603	MuRata	GRM188R71E332KA01D	1
CB1	CAP, Tantalum Polymer, 150 µF, 16 V, +/- 20%, 0.05 ohm, 7343-31 SMD	Panasonic	16TQC150MYF	1
D1	Diode, Zener, 5.1 V, 300 mW, SOD-523	Diodes Inc.	BZT52C5V1T-7	1
D2	Diode, Zener, 16 V, 300 mW, SOD-523	Diodes Inc.	BZT52C16T-7	1
J1	Header, 100mil, 6x1, Gold, R/A, TH	Samtec	TSW-106-08-G-S-RA	1
J2	Connector, Receptacle, USB Type A, R/A, SMT	Kycon Inc	KUSBEX-SMT2-AS1N-B30TR	1
J3	Header, 100mil, 6x1, Gold, TH	Samtec	TSW-106-07-G-S	1
J4, J5, J6, J7, J8, J9, J10, J11	Header, 100mil, 3x1, Gold, TH	Samtec	HTSW-103-07-G-S	8
L1	Inductor, Shielded, Composite, 2.2 µH, 3.7 A, 0.02 ohm, SMD	Coilcraft	XFL4020-222MEB	1
Q1	MOSFET, P-CH, -40V, -8.7A, SOIC-8	Vishay-Siliconix	SI4401BDY	1
Q2	Transistor, PNP, 40 V, 0.2 A, SOT-416	ON Semiconductor	MMBT3906TT1G	1
Q3	Transistor, NPN, 40 V, 0.2 A, SOT-416	ON Semiconductor	MMBT3904TT1G	1
R1	RES, 2.49 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06032K49FKEA	1
R2	RES, 8.06 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06038K06FKEA	1
R3	RES, 1.96 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06031K96FKEA	1
R4, R6	RES, 1.00Meg ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06031M00FKEA	2
R5	RES, 10.0 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060310K0FKEA	1
R7	RES, 221 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW0603221KFKEA	1
R8	RES, 20.0 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060320K0FKEA	1
R9, R10	RES, 5.11 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06035K11FKEA	2
R11	RES, 0, 5%, 0.25 W, 1206	Vishay-Dale	CRCW12060000Z0EA	1
R12	RES, 100 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW0603100KFKEA	1
U1	Buck Step Down Regulator with 3 to 17 V Input and 0.9 to 6 V Output, -40 to 85 degC, 16-Pin QFN (RGT), Green (RoHS & no Sb/Br)	Texas Instruments	TPS62130RGTR	1
U2	Automotive USB Charging Port Controller with Integrated Power Switch & Cable Compensation, RTE0016C	Texas Instruments	TPS2549IRTERQ1	1

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