

Filename: PMP10505_REVC_BOM.xls

Variant: None

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LM5020 LED Boost

Designator	Description	Manufacturer	PartNumber	Quantity
!PCB1	Printed Circuit Board	Any	PMP10505	1
C1, C2, C3, C4	CAP, CERM, 4.7uF, 100V, +/-10%, X7S, 1210	TDK	C3225X7S2A475K200AB	4
C5	CAP, CERM, 0.22uF, 16V, +/-10%, X7R, 0603	MuRata	GRM188R71C224KA01D	1
C6	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0603	MuRata	GRM188R72A104KA35D	1
C7	CAP, CERM, 330pF, 50V, +/-10%, X7R, 0603	MuRata	GRM188R71H331KA01D	1
C8	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	MuRata	GRM1885C1H101JA01D	1
C9	CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0603	MuRata	GRM188R71H103KA01D	1
C10	CAP, CERM, 0.022uF, 50V, +/-10%, X7R, 0603	MuRata	GRM188R71H223KA01D	1
C101, C102, C103, C104	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0805	MuRata	GRM21BR71E105KA99L	4
C105	CAP, CERM, 0.047uF, 50V, +/-10%, X7R, 0603	MuRata	GRM188R71H473KA61D	1
D1	Diode, Zener, 20V, 225mW, SOT-23	ON Semiconductor	BZX84C20LT1G	1
D2	Diode, Schottky, 200V, 1A, PowerDI123	Diodes Inc.	DFLS1200-7	1
D3, D4	Diode, Zener, 43V, 225mW, SOT-23	ON Semiconductor	BZX84C43LT1G	2
FID1, FID2, FID3	Fiducial mark. There is nothing to buy or mount.	N/A	N/A	3
H1, H2, H3, H4	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	B&F Fastener Supply	NY PMS 440 0025 PH	4
H5, H6, H7, H8	Standoff, Hex, 0.5"L #4-40 Nylon	Keystone	1902C	4
L1	Inductor, Shielded Drum Core, Ferrite, 220uH, 0.97A, 0.76 ohm, SMD	Coilcraft	MSS1038-224KLB	1
LBL1	Thermal Transfer Printable Labels, 0.650" W x 0.200" H 10,000 per roll	Brady	THT-14-423-10	1
Q1	MOSFET, N-CH, 200V, 0.6A, TSOP-6	International Rectifier	IRF5801TRPBF	1
R1	RES, 10 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060310R0JNEA	1
R2	RES, 100k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW0603100KFKEA	1
R3	RES, 300 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW0603300RJNEA	1
R4	RES, 1.00 ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW08051R00FKEA	1
R5, R6, R7, R8	RES, 19.1 ohm, 1%, 0.25W, 1206	Vishay-Dale	CRCW120619R1FKEA	4
R9	RES, 2.49k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06032K49FKEA	1
R10, R13, R16, R18	RES, 10k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060310K0JNEA	4
R11, R14, R17, R19, R21	RES, 51 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060351R0JNEA	5
R12	RES, 31.6k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060331K6FKEA	1
R15	RES, 2.2k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06032K20JNEA	1
R20	RES, 47k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060347K0JNEA	1
R101	RES, 4.7k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06034K70JNEA	1
TP1, TP2, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18	Terminal, Turret, TH, Triple	Keystone	1598-2	12
TP3, TP5, TP7	Test Point, Multipurpose, Red, TH	Keystone	5010	3
TP4, TP6, TP8	Test Point, Multipurpose, Black, TH	Keystone	5011	3

Designator	Description	Manufacturer	PartNumber	Quantity
U1	100V Current Mode PWM Controller, 10-pin MSOP, Pb-Free	Texas Instruments	LM5020MM-2/NOPB	1

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