

PMP23241 REV -1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
I PCB1	1		PMP23241	Any	Printed Circuit Board	
C1	1	1000uF	EMXB250ARA102MLH0S	United Chemi-Con	CAP, Al Electrolytic, 1000uF, 25V, +/-20%, 0.1ohm ESR @ 100kHz, 1.12Arms @ 100kHz, SMT	16mm Diam.; 17mm Height
C2, C3, C4	3	10uF	GCM32ER71E106KA57K	Murata	CAP, CERM, 10uF, 25V, X7R, 10%, 1210	1210
C5	1	0.1uF	CGA3E2X7R1E104K080AA	TDK	CAP, CERM, 0.1uF, 25V, X7R, 10%, 0603	0603
C6	1	10pF	CGA2B2C0G1H100D050BA	TDK	CAP, CERM, 10 pF, 50 V, +/- 5%, COG/NP0, AEC-Q200 Grade 1, 0402	0402
C7, C8, C9, C10, C11	5	22uF	CL32B226KOJVPNE	Samsung Electro-Mechanics	CAP, CERM, 22 µF, 16 V,+/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
C12, C14	2	2.2uF	CL31B225KBHVPNE	Samsung	CAP, CERM, 2.2uF, 50V, X7R, 10%, 1206	1206
C13, C15	2	0.22uF	CGA3E3X7R1H224K080AB	TDK	CAP, CERM, 0.22 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C16	1	1uF	CGA3E1X7R1C105K080AC	TDK	CAP, CERM, 1 µF, 16 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C17	1	0.22uF	GCM188R71E224KA55D	MuRata	CAP, CERM, 0.22 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
D1	1	45V	V3FL45HM3/H	Vishay	Diode, Schottky, 45V, 3A, DO-219AB (SMF)	DO-219AB (SMF)
D2, D3	2	30V	RB510VM-30FHTE-17	Rohm	Diode, Schottky, 30V, 100mA, SOD-323F	SOD-323F
H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
J1	1		6091	Keystone	Standard Banana Jack, Insulated, Red	6091
J2, J3	2		6092	Keystone	Standard Banana Jack, Insulated, Black	6092
J4	1		108-0907-001	Cinch Connectivity	BANANA JACK, 15A, Insulated, Nylon, Yellow	940x438x438mil
L1	1	4.7uH	XAL1510-472MEB	Coilcraft	Inductor, Shielded, Composite, 4.7 uH, 29 A, 0.00335 ohm, SMD	15.4 x 11 x 16.4mm
LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
Q1, Q2, Q3	3	40V	PMBT3906.235	Nexperia	Transistor, NPN, 40V, 200mA, SOT-23-3	SOT-23-3
R1	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R2, R3	2	0	RMCF0603ZT0R00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R4, R12	2	0	RMCF0402ZT0R00	Stackpole	RMCF/RMCP Series General Purpose Thick Film Standard Power and High Power Chip Resistor	0402 (1005 metric)
R5	1	110k	CRCW0402110KFKEA	Vishay-Dale	RES, 110 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R6	1	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R7	1	12.1k	CRCW040212K1FKED	Vishay-Dale	RES, 12.1 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R9	1	40.2k	CRCW040240K2FKED	Vishay-Dale	RES, 40.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R10, R13, R14	3	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R11, R16, R17	3	100k	RMCF0402FT100K	Stackpole Electronics Inc	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R15	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
TP1	1		5010	Keystone Electronics	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP2, TP3, TP5, TP12	4		5011	Keystone Electronics	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
TP4, TP7, TP8, TP9, TP10, TP11	6		5012	Keystone Electronics	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
TP6	1		5014	Keystone Electronics	Test Point, Multipurpose, Yellow, TH	Yellow Multipurpose Testpoint
U1	1		LM61495QRPHRQ1	Texas Instruments	LM61495QRPHRQ1, RPH0016A (VQFN-HR-16)	RPH0016A
C18	0	100pF	CGA2B2C0G1H101J050BA	TDK	CAP, CERM, 100 pF, 50 V, +/- 5%, COG/NP0, AEC-Q200 Grade 1, 0402	0402
R8	0	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R18	0	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R19	0	0	RMCF0402ZT0R00	Stackpole	RMCF/RMCP Series General Purpose Thick Film Standard Power and High Power Chip Resistor	0402 (1005 metric)

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R20	0	9.76k	CRCW04029K76FKED	Vishay-Dale	RES, 9.76 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402

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