

PMP40970 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C22, C32	3	10uF	UMK325AB7106KMHT	Taiyo Yuden	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
C2	1	0.047uF	CGA3E2X7R1H473K080AA	TDK	CAP, CERM, 0.047 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C3, C4, C5, C6, C7, C8, C9, C10	8	2.2uF	CGA4J3X7R1H225K125AE	TDK	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
C11, C12	2	2200pF	GRM31BR72J222KW01L	MuRata	CAP, CERM, 2200 pF, 630 V, +/- 10%, X7R, 1206	1206
C23, C24, C26, C27	4	2200pF	C0603C222K5RACTU	Kemet	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
C25, C28, C39, C45, C46, C47	6	2.2uF	GCM31CR71H225KA55L	MuRata	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
C30, C34, C36	3	0.1uF	06035C104KAZ2A	AVX	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C35, C40	2	1uF	CGA4J3X7R1H105K125AB	TDK	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
C37, C41, C42, C43, C44, C48, C49, C50	8	0.01uF	CGA3E2C0G1H103J080AA	TDK	CAP, CERM, 0.01 uF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603	0603
C38	1	1uF	CGA3E1X7R1E105K080AC	TDK	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
D2, D3, D5, D10	4	5.1V	BZT52C5V1S-7-F	Diodes Inc.	Diode, Zener, 5.1 V, 200 mW, SOD-323	SOD-323
D4, D6, D7, D8, D9, D13, D14, D15	8	40V	MBR0540T1G	ON Semiconductor	Diode, Schottky, 40 V, 0.5 A, SOD-123	SOD-123
J1	1		LHA-12-TS	Adam Tech		HDR12
L4	1	4.7uH	XFL3010-472MEB	Coilcraft	Inductor, Shielded, Composite, 4.7 uH, 1.1 A, 0.22 ohm, SMD	3x1.0x3mm
L5	1	2200 ohm	742792093	Würth Elektronik	Ferrite Bead, 2200 ohm @ 100 MHz, 0.2 A, 0805	0805
P1	1			Würth Elektronik	WR-TBL Serie 3221 Horizontal PCB Header, Pluggable, THT, pitch 3.5mm, 2p	
R1	1	69.8k	CRCW060369K8FKEA	Vishay-Dale	RES, 69.8 k, 1%, 0.1 W, 0603	0603
R2, R12, R17	3	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R3, R4, R5, R6	4	20.0k	ERJ-3EKF2002V	Panasonic	RES, 20.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R7	1	20.0k	RC0603FR-0720KL	Yageo America	RES, 20.0 k, 1%, 0.1 W, 0603	0603
R14	1	24.9k	RC0603FR-0724K9L	Yageo America	RES, 24.9 k, 1%, 0.1 W, 0603	0603
R15	1	40.2k	ERJ-3EKF4022V	Panasonic	RES, 40.2 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R16	1	12.0k	RC0603FR-0712KL	Yageo America	RES, 12.0 k, 1%, 0.1 W, 0603	0603
T1, T2, T3, T4	4		750345052	Würth Elektronik	EP5 Transformer	EP5 Transformer
U1	1		TL431BQDBZRQ1	Texas Instruments	Automotive Catalog Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 125 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
U2	1		TPS7B4254QDDARQ1	Texas Instruments	150-mA 40-V Voltage-Tracking LDO With 4-mV Tracking Tolerance, DDA0008J (SOIC-8)	DDA0008J
U3	1		UCC25800AQDGNQ1	Texas Instruments	Open Loop LLC Transformer Driver for Isolated Bias Supplies	VSSOP8
C31	0	33uF	EEHZC1H330XP	Panasonic	CAP, Polymer Hybrid, 33 uF, 50 V, +/- 20%, 40 ohm, 6.3x7.7 SMD	6.3x7.7
C33	0	4.7uF	CGA5L3X7R1H475K160AE	TDK	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
C51	0	10uF	UMK325AB7106KMHT	Taiyo Yuden	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
D1	0	3.3V	MMSZ5226BS-7-F	Diodes Inc.	Diode, Zener, 3.3 V, 200 mW, SOD-323	SOD-323
R11	0	1.00	CRCW06031R00FKEA	Vishay-Dale	RES, 1.00, 1%, 0.1 W, 0603	0603

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