

PMP30720_RevB

TBD = TO BE DEFINED
DNP = DO NOT POPULATE

REFDES > 200 added on board

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	DNP	450BXW82MEFR18X30	Used in BOM report	CAP, [Technology], 82uF, 450V, +/-xx%, xxOhm ESR, [MountType]	Used in PnP output and some BOM reports
C2, C100	2	82uF	450BXW82MEFR18X30	Used in BOM report	CAP, [Technology], 82uF, 450V, +/-xx%, xxOhm ESR, [MountType]	Used in PnP output and some BOM reports
C3	1	0.47uF	1812Y5000474KXTWS2	Knowles Capacitors	CAP, CERM, 0.47 uF, 500 V,+/- 10%, X7R, 1812	1812
C4	1	0.1uF	C3216X7T2W104K160AA	TDK	CAP, CERM, 0.1 uF, 450 V, +/- 10%, X7T, 1206_190	1206_190
C5	1	0.47uF	GRM55DR72E474KW01L	MuRata	CAP, CERM, 0.47 uF, 250 V,+/- 10%, X7R, 2220	2220
C6	1	0.68uF	DNP	MuRata	CAP, CERM, 0.68 uF, 250 V,+/- 10%, X7R, 2220	2220
C7	1	DNP	GRM55DR72E684KW01L	MuRata	CAP, CERM, 0.68 uF, 250 V,+/- 10%, X7R, 2220	2220
C8	1	0.15uF	C0805C154K5RACTU	Kemet	CAP, CERM, 0.15 uF, 50 V,+/- 10%, X7R, 0805	0805
C9, C25	2	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1 uF, 50 V,+/- 10%, X7R, 0805	0805
C10, C31, C34	3	0.1uF	GRM21BR71H104KA01L	MuRata	CAP, CERM, 0.1 uF, 50 V,+/- 10%, X7R, 0805	0805
C11, C12	2	33pF	GRM1885C1H330JA01D	MuRata	CAP, CERM, 33 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C13	1	1200uF	EEU-FM1V122L	Panasonic	CAP, AL, 1200 uF, 35 V, +/- 20%, TH	D12.5xL30mm
C14	1	DNP	DNP	Used in BOM report	CAP, [Technology], xxxF, xxV, +/-xx%, xxOhm ESR, [MountType]	Used in PnP output and some BOM reports
C15	1	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10 uF, 50 V,+/- 10%, X7R, 1210	1210
C16	1	1500pF	GRM31BR72J152KW01L	MuRata	CAP, CERM, 1500 pF, 630 V,+/- 10%, X7R, 1206	1206
C17, C119	2	1uF	GRM31MR71H105KA88L	MuRata	CAP, CERM, 1 uF, 50 V,+/- 10%, X7R, 1206	1206
C18	1	1.5uF	C3216X7R1H155K160AB	TDK	CAP, CERM, 1.5 uF, 50 V,+/- 10%, X7R, 1206	1206
C19, C20	2	10uF	C3225X7R1H106M250AC	TDK	CAP, CERM, 10 uF, 50 V,+/- 20%, X7R, 1210	1210
C21	1	SHORT	SHORT	MuRata	CAP, CERM, 3300 pF, X1 250 VAC/Y1 300 VAC, +/- 20%, E, D10xT7mm	D10xT7mm
C22	1	3300pF	DE1E3KX332MN4AP01F	MuRata	CAP, CERM, 3300 pF, X1 250 VAC/Y1 300 VAC, +/- 20%, E, D10xT7mm	D10xT7mm
C23	1	DNP	DNP	AVX	CAP, CERM, 3.3 pF, 50 V,+/- 8%, C0G/NP0, 0603	0603
C24	1	2.2uF	C2012X7R1H225K125AC	TDK	CAP, CERM, 2.2 uF, 50 V,+/- 10%, X7R, 0805	0805
C26	1	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C27	1	2200pF	GRM188R71H222KA01D	MuRata	CAP, CERM, 2200 pF, 50 V,+/- 10%, X7R, 0603	0603
C28, C29	2	0.015uF	GRM188R71H153KA01D	MuRata	CAP, CERM, 0.015 uF, 50 V,+/- 10%, X7R, 0603	0603
C30	1	3.3pF	06035A3R3CAT2A	AVX	CAP, CERM, 3.3 pF, 50 V,+/- 8%, C0G/NP0, 0603	0603
C32	1	100uF	EEE-FK1V101XP	Panasonic	CAP, AL, 100 uF, 35 V, +/- 20%, 0.34 ohm, AEC-Q200 Grade 2, SMD	SMT Radial D8
C33, C110	2	3300pF	GRM188R71H332KA01D	MuRata	CAP, CERM, 3300 pF, 50 V,+/- 10%, X7R, 0603	0603
C35	1	10uF	GRM32ER71H106MA12	MuRata	CAP, CERM, 10 uF, 50 V,+/- 20%, X7R, 1210	1210
C36	1	27pF	GRM1885C1H270JA01D	MuRata	CAP, CERM, 27 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C37	1	180pF	GRM2165C1H181JA01D	MuRata	CAP, CERM, 180 pF, 50 V,+/- 5%, C0G/NP0, 0805	0805
C38	1	47pF	GRM1885C1H470JA01D	MuRata	CAP, CERM, 47 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C39	1	DNP	DNP	MuRata	CAP, CERM, 2.2 uF, 50 V,+/- 10%, X7R, 1206	1206
C101	1	47uF	UVK2W470MHD	Nichicon	CAP, [Technology], 47uF, 450V, +/-xx%, xxOhm ESR, [MountType]	Used in PnP output and some BOM reports

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C102, C104, C124	3	DNP	DNP	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	Used in PnP output and some BOM reports
C103, C106	2	2.2uF	CKG57NX7R2E225M500JH	TDK	CAP, CERM, 2.2 µF, 250 V,+/- 20%, X7R, AEC-Q200 Grade 1, 6x5x5mm	6x5x5mm
C105	1	47uF	EEU-EE2G470S	Panasonic	CAP, AL, 47 uF, 400 V, +/- 20%, TH	18x20mm
C107	1	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1 µF, 50 V,+/- 10%, X7R, 0603	0603
C108	1	2.2uF	GRM31MR71E225KA93L	MuRata	CAP, CERM, 2.2 µF, 25 V,+/- 10%, X7R, 1206	1206
C109	1	0.01uF	C0603C103J5RACTU	Kemet	CAP, CERM, 0.01 µF, 50 V,+/- 5%, X7R, 0603	0603
C111	1	100pF	06035A101FAT2A	AVX	CAP, CERM, 100 pF, 50 V,+/- 1%, C0G/NP0, 0603	0603
C112	1	2200pF	C0603C222K5RAC	Kemet	CAP, CERM, 2200 pF, 50 V,+/- 10%, X7R, 0603	0603
C113	1	1uF	GRM21BR71C105KA01L	MuRata	CAP, CERM, 1 µF, 16 V,+/- 10%, X7R, 0805	0805
C114	1	4.7uF	GRM31CR71E475KA88L	MuRata	CAP, CERM, 4.7 µF, 25 V,+/- 10%, X7R, 1206	1206
C115	1	22pF	GRM1885C1H220JA01D	MuRata	CAP, CERM, 22 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C116	1	DNP	DNP	MuRata	CAP, CERM, 0.1 µF, 50 V,+/- 10%, X7R, 0603	0603
C117, C118, C123	3	DNP	DNP	MuRata	CAP, CERM, 1 µF, 50 V,+/- 10%, X7R, 1206	1206
C120	1	0.22uF	GRM21BR71H224KA01L	MuRata	CAP, CERM, 0.22 µF, 50 V,+/- 10%, X7R, 0805	0805
C121	1	DNP	Used in BOM report	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	Used in PnP output and some BOM reports
C122	1	DNP	DNP	MuRata	CAP, CERM, 100 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C201	1	100uF	EMVH350ADA101MJA0G	Chemi-Con	CAP, AL, 100 µF, 35 V, +/- 20%, 0.3 ohm, SMD	JA0
D1	1	600V	MURA160T3G	ON Semiconductor	Diode, Ultrafast, 600 V, 1 A, AEC-Q101, SMA	SMA
D2, D5	2	30V	B130-13-F	Diodes Inc.	Diode, Schottky, 30 V, 1 A, SMA	SMA
D3, D4	2	18V	SMAZ18-13-F	Diodes Inc.	Diode, Zener, 18 V, 1 W, AEC-Q101, SMA	SMA
D6, D7	2	200V	ES1D-13-F	Diodes Inc.	Diode, Ultrafast, 200 V, 1 A, SMA	SMA
D8	1	200V	SS1200-LTP	Micro Commercial Component	Diode, Schottky, 200 V, 1 A, SMA	SMA
D9	1	27V	MMSZ5254B-7-F	Diodes Inc.	Diode, Zener, 27 V, 500 mW, SOD-123	SOD-123
D10	1	DNP	DNP	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
D100	1	800V	RS3K-E3/9AT	Vishay-Semiconductor	Diode, Switching, 800 V, 3 A, SMC	SMC
D101	1	600V	STPSC1006D	Microsemi	Diode, Schottky, 600 V,	TO-220-2
D102, Dz2	2	18V	MMSZ5248B-7-F	Diodes Inc.	Diode, Zener, 18 V, 500 mW, SOD-123	SOD-123
D103	1	30V	BAT54HT1G	ON Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323
D104	1	20V	MBR0520LT1G	ON Semiconductor	Diode, Schottky, 20 V, 0.5 A, SOD-123	SOD-123
D105	1	18V	MMBZ5248BLT1G	ON Semiconductor	Diode, Zener, 18 V, 225 mW, SOT-23	SOT-23
D106	1	DNP	DNP	Diodes Inc.	Diode, Zener, 10 V, 200 mW, SOD-323	SOD-323
D107	1	DNP	DNP	ON Semiconductor	Diode, Zener, 4.7 V, 500 mW, SOD-123	SOD-123
DZ1	1	24V	MMSZ5252B-7-F	Diodes Inc.	Diode, Zener, 24 V, 500 mW, SOD-123	SOD-123
F100	1		0443005.DR	Littelfuse	Fuse, 5 A, 250VAC/VDC, SMD	FUSE 10.1x3.12x3.13mm
H100	1		531002B02500G	Aavid	HEATSINK TO-220 W/PINS 1" TALL	TH, 2-Leads, Body 34.92x12.7mm, Pin Spacing 25.4mm
H101	1		FA-T220-64E	Ohmite	Heatsink, TO-220, TO-218, TO-247	Heatsink
L1	1	1uH	7447462010	Würth Elektronik	Inductor, Unshielded Drum Core, Ferrite, 1 uH, 8 A, 0.006 ohm, TH	D6 x 8.5mm
L100	1	300uH	750318149	Würth Elektronik	Inductor, 300 µH, 0.065 ohm, TH	40.64x36.2mm
Q1, Q2	2		IPAW60R360P7SXKSA1-ND	Infineon	MOSFET, N-CH, 650V, xxxA, [PackageReference]	Used in PnP output and some BOM reports
Q3	1	200V	SiR616DP		MOSFET, N-CH, 200 V, PG-TDSON-8	PG-TDSON-8
Q4	1	600V	BSS126 H6906	Infineon Technologies	MOSFET, N-CH, 600 V, 0.021 A, AEC-Q101, SOT-23	SOT-23

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
Q5, Q105	2	60V	2N7002-7-F	Diodes Inc.	MOSFET, N-CH, 60 V, 0.17 A, SOT-23	SOT-23
Q100, Q103	2	40 V	MMBT3904-7-F	Diodes Inc.	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
Q101	1	600V	IPP60R125CFD7	Infineon Technologies	MOSFET, N-CH, 600 V, 25 A, TO-220AB	TO-220AB
Q102	1	60 V	MMBT2907ALT1G	ON Semiconductor	Transistor, PNP, 60 V, 0.6 A, SOT-23	SOT-23
Q104	1	600V	CPC3960ZTR	IXYS	MOSFET, N-CH, Depletion Mode, 600 V, 0.1 A, SOT-223	SOT-223
R1, R2	2	383k	CRCW1206383KFKEA	Vishay-Dale	RES, 383 k, 1%, 0.25 W, 1206	1206
R3, R20, R24, R110	4	10	CRCW080510R0JNEA	Vishay-Dale	RES, 10, 5%, 0.125 W, 0805	0805
R4	1	100	CRCW1206100RJNEA	Vishay-Dale	RES, 100, 5%, 0.25 W, 1206	1206
R5, R8	2	4.99k	CRCW08054K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.125 W, 0805	0805
R6, R7	2	15.0	CRCW080515R0FKEA	Vishay-Dale	RES, 15.0, 1%, 0.125 W, 0805	0805
R9, R40, R102, R104, R151, R152	6	DNP	DNP	Used in BOM report	RES, xxx ohm, x%, xW, [PackageReference]	Used in PnP output and some BOM reports
R10	1	0	CRCW12060000Z0EA	Vishay-Dale	RES, 0, 5%, 0.25 W, 1206	1206
R11, R12, R23	3	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R13	1	0.11	ERJ-8RSJR12V	Panasonic	RES, 0.12, 5%, 0.25 W, 1206	1206
R14	1	0.33	DNP	Panasonic	RES, 0.33, 1%, 0.25 W, 1206	1206
R15	1	3.3	CRCW25123R30JNEG	Vishay-Dale	RES, 3.3, 5%, 1 W, AEC-Q200 Grade 0, 2512	2512
R16	1	499	CRCW1206499RFKEA	Vishay-Dale	RES, 499, 1%, 0.25 W, 1206	1206
R17	1	10.0	CRCW120610R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.25 W, 1206	1206
R18	1	10.0	CRCW080510R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.125 W, 0805	0805
R19	1	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R21	1	24.9k	CRCW060324K9FKEA	Vishay-Dale	RES, 24.9 k, 1%, 0.1 W, 0603	0603
R22	1	5.23k	CRCW06035K23FKEA	Vishay-Dale	RES, 5.23 k, 1%, 0.1 W, 0603	0603
R25, R115, R119	3	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R26	1	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, 0603	0603
R27	1	196k	CRCW0603196KFKEA	Vishay-Dale	RES, 196 k, 1%, 0.1 W, 0603	0603
R28	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R29	1	499	CRCW0603499RFKEA	Vishay-Dale	RES, 499, 1%, 0.1 W, 0603	0603
R30	1	34.0k	CRCW060334K0FKEA	Vishay-Dale	RES, 34.0 k, 1%, 0.1 W, 0603	0603
R31	1	12.1k	RC0603FR-0712K1L	Yageo America	RES, 12.1 k, 1%, 0.1 W, 0603	0603
R32	1	150k	CRCW0603150KFKEA	Vishay-Dale	RES, 150 k, 1%, 0.1 W, 0603	0603
R33	1	15.0k	CRCW060315K0FKEA	Vishay-Dale	RES, 15.0 k, 1%, 0.1 W, 0603	0603
R34	1	121	CRCW0603121RFKEA	Vishay-Dale	RES, 121, 1%, 0.1 W, 0603	0603
R35	1	604k	CRCW0603604KFKEA	Vishay-Dale	RES, 604 k, 1%, 0.1 W, 0603	0603
R36, R37, R121	3	249k	CRCW0603249KFKEA	Vishay-Dale	RES, 249 k, 1%, 0.1 W, 0603	0603
R38	1	124k	CRCW0603124KFKEA	Vishay-Dale	RES, 124 k, 1%, 0.1 W, 0603	0603
R39	1	47.5k	CRCW060347K5FKEA	Vishay-Dale	RES, 47.5 k, 1%, 0.1 W, 0603	0603
R41	1	17.4k	CRCW060317K4FKEA	Vishay-Dale	RES, 17.4 k, 1%, 0.1 W, 0603	0603
R42	1	DNP	DNP	Vishay-Dale	RES, 100 k, 1%, 0.125 W, 0805	0805
R100, R101, R116, R117	4	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
R103, R106	2	499k	CRCW1206499KFKEA	Vishay-Dale	RES, 499 k, 1%, 0.25 W, 1206	1206
R105	1	49.9	CRCW080549R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.125 W, 0805	0805
R107, R108	2	374k	CRCW0805374KFKEA	Vishay-Dale	RES, 374 k, 1%, 0.125 W, 0805	0805
R109, R201	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R111	1	6.98k	CRCW06036K98FKEA	Vishay-Dale	RES, 6.98 k, 1%, 0.1 W, 0603	0603
R112, R118, R123, R130	4	4.7k	CRCW25124K70JNEG	Vishay-Dale	RES, 4.7 k, 5%, 1 W, AEC-Q200 Grade 0, 2512	2512
R113	1	100k	CRCW0805100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.125 W, 0805	0805
R114	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R120	1	DNP	DNP	Vishay-Dale	RES, 2.21 k, 1%, 0.1 W, 0603	0603
R122	1	14.7k	CRCW060314K7FKEA	Vishay-Dale	RES, 14.7 k, 1%, 0.1 W, 0603	0603
R124	1	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	0603
R125	1	DNP	DNP	Vishay-Dale	RES, 37.4 k, 1%, 0.1 W, 0603	0603
R126	1	8.2	CRCW12068R20JNEA	Vishay-Dale	RES, 8.2, 5%, 0.25 W, 1206	1206
R127, R128, R129	3	DNP	DNP	Panasonic Electronic Compon	RES, 0.18 ohm, 1%, 500mW, current sense [PackageReference]	1210
R131, R133	2	200k	CRCW0805200KJNEA	Vishay-Dale	RES, 200 k, 5%, 0.125 W, 0805	0805
R132	1	DNP	DNP	Vishay-Dale	RES, 0, 5%, 0.25 W, 1206	1206
R134, R135, R146	3	DNP	DNP	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
R136	1	0	CRCW08050000Z0EAHP	Vishay-Dale	RES, 0, 5%, 0.333 W, 0805	0805
R137, R140	2	DNP	DNP	Vishay-Dale	RES, 3.92 M, 1%, 0.25 W, 1206	1206
R138	1	DNP	DNP	Vishay-Dale	RES, 249 k, 1%, 0.1 W, 0603	0603
R139, R142	2	DNP	Used in BOM report	Used in BOM report	RES, xxx ohm, x%, xW, [PackageReference]	Used in PnP output and some BOM reports
R141, R149	2	DNP	DNP	Vishay-Dale	RES, 499 k, 1%, 0.1 W, 0603	0603
R143	1	499k	CRCW0805499KFKEA	Vishay-Dale	RES, 499 k, 1%, 0.125 W, 0805	0805
R144, R147	2	DNP	DNP	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R145	1	DNP	DNP	Vishay-Dale	RES, 10.0 k, 1%, 0.125 W, 0805	0805
R148	1	DNP	DNP	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R150	1	DNP	DNP	Vishay-Dale	RES, 402 k, 1%, 0.125 W, 0805	0805
RF1	1	DNP	DNP	Vishay-Dale	RES, 0, 5%, 1 W, AEC-Q200 Grade 0, 2512	2512
RT1	1	5ohm	B57464S0509M000	TDK	Thermistor NTC, 5 ohm	
RT2	1	47.0k	NCP18WB473F10RB	MuRata	Thermistor NTC, 47.0k ohm, 1%, 0603	0603
RT100, RT101	2	TBD	TBD	TDK	Thermistor NTC, 2.2 ohm, 20%, 15x7mm	15x7mm
T1	1		750318431_R00	Würth Electronics	PTH_TRANSFORMER_14	PTH_14
TP1, TP2, TP5, TP6, TP101	5		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP3, TP4, TP100, TP102	4		1503-2	Keystone	Terminal, Turret, TH, Double	Keystone1503-2
TP7, TP103	2		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP104	1		1508-0-57-15-00-00-03-0	Mill-Max	PC Test Point, SMT	Testpoint, SMT
U1	1		UCC27712DR	Texas Instruments	620-V High-Side Low-Side Gate Driver with 2.5A Peak Output and RobustDrive, D0008A (SOIC-8)	D0008A
U2	1		UCC24612-1DBVR	Texas Instruments	High-Frequency Multi-Mode Synchronous Rectifier Controller, DBV0005A (SOT-23-5)	DBV0005A
U3	1		UCC28780DR	Texas Instruments	Active-Clamp Flyback Controller, D0016A (SOIC-16)	D0016A
U4	1		FOD817AS	Fairchild Semiconductor	Optocoupler, 5 kV, 80-160% CTR, SMT	DIP-4L Gullwing
U5	1		ATL431LIBQDBZR	Texas Instruments	2.5V Low Iq Adjustable Precision Shunt Regulator, DBZ0003A (SOT-23-3)	DBZ0003A
U100	1		UCC28C42DR	Texas Instruments	BiCMOS Low Current 8 Pin PWM Current Mode Controller, D0008A (SOIC-8)	D0008A
U101	1	500uH	749251050	Würth Elektronik	Transformer, 500 uH, SMD	5.6x5.6mm
U102	1		DNP	Texas Instruments	40 V, microPower, Push-Pull Comparator with Shutdown, DBV0006A (SOT-23-6)	DBV0006A

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