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Variant: 001

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PMP10555 Bill of Materials

Designator	Description	Manufacturer	PartNumber	Quantity
!PCB1	Printed Circuit Board	Any	SAT0105	1
	CAP, CERM, 0.1uF, 25V, +/-10%, X5R, 0603	MuRata	GRM188R61E104KA01D	3
C3, C9,	CAP, CERM, 10uF, 25V, +/-20%, X5R, 0805	MuRata	GRM21BR61E106MA73	4
C10, C59	, , , , , , , , , , , , , , , , , , , ,			
·	CAP, CERM, 22uF, 6.3V, +/-20%, X5R, 0805	MuRata	GRM21BR60J226ME39L	2
C6, C16,	CAP, CERM, 0.047uF, 25V, +/-10%, X7R, 0402	MuRata	GRM155R71E473KA88D	6
C20, C56,				
C66, C70				
C7, C57	CAP, AL, 47uF, 25V, +/-20%, 0.36 ohm, SMD	Panasonic	EEE-FK1E470P	2
C8, C58	CAP, CERM, 22uF, 25V, +/-20%, X5R, 0805	MuRata	GRM21BR61E226ME44	2
C11, C12,	CAP, CERM, 100uF, 6.3V, +/-20%, X5R, 1210	MuRata	GRM32ER60J107ME20L	20
C13, C17,				
C18, C19,				
C23, C24,				
C45, C46,				
C47, C48,				
C49, C50,				
C61, C62,				
C63, C67,				
C68, C69				
C14, C15,	CAP, CERM, 1uF, 25V, +/-10%, X5R, 0603	MuRata	GRM188R61E105KA12D	7
C37, C44,				
C64, C65,				
C81	0.4 D. OFDIN 0.04 E. FOV/ 400/. NZD. 0.400	M D (00144550741400144000	_
C21, C22,	CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0402	MuRata	GRM155R71H103KA88D	7
C25, C53,				
C71, C72,				
C74 C29	CAD CEDM 1500×F 50V +/ 100/ V7D 0400	MuData	CDM455D74U452KA04D	1
C30, C79	CAP, CERM, 1500pF, 50V, +/-10%, X7R, 0402	MuRata MuRata	GRM155R71H152KA01D GRM155R71H222KA01D	2
C30, C79	CAP, CERM, 2200pF, 50V, +/-10%, X7R, 0402 CAP, CERM, 3300pF, 50V, +/-10%, X7R, 0402	MuRata	GRM155R71H332KA01D	1
C32	CAP, AL, 100uF, 25V, +/-20%, 0.3 ohm, SMD	Panasonic	EEE-FC1E101P	1
C33	CAP, CERM, 330pF, 50V, +/-5%, C0G/NP0, 0402	MuRata	GRM1555C1H331JA01D	1
	CAP, CERM, 22uF, 25V, +/-10%, X5R, 1210	MuRata	GRM32ER61E226KE15L	3
C36	O'AT, O'ETAWI, 2241 , 20 V , 17 10 70 , XOTA, 12 10	Markata	GIAMOZEIAG IEZZGIAE IGE	Ŭ
	CAP, CERM, 4700pF, 25V, +/-10%, X7R, 0402	MuRata	GRM155R71E472KA01D	2
	CAP, CERM, 0.1uF, 25V, +/-10%, X5R, 0402	MuRata	GRM155R61E104KA87D	1
C41, C42,	CAP, TA, 560uF, 2V, +/-20%, 0.003 ohm, SMD	Panasonic	EEF-GX0D561L	3
C43	o , , ,			
C52	CAP, CERM, 4.7uF, 16V, +/-10%, X5R, 0603	MuRata	GRM188R61C475KAAJ	1
C54	CAP, CERM, 1uF, 10V, +/-10%, X5R, 0402	MuRata	GRM155R61A105KE15D	1
C55	CAP, CERM, 1000pF, 25V, +/-10%, X7R, 0603	MuRata	GRM188R71E102KA01D	1
C60	CAP, CERM, 4.7uF, 25V, +/-10%, X6S, 0805	MuRata	GRM21BC81E475KA12L	1
C78	CAP, CERM, 1800pF, 50V, +/-10%, X7R, 0402	MuRata	GRM155R71H182KA01D	1
C80	CAP, CERM, 8200pF, 25V, +/-10%, X7R, 0402	MuRata	GRM155R71E822KA01D	1
C203, C204	CAP, CERM, 100pF, 100V, +/-5%, C0G/NP0, 0603	MuRata	GRM1885C2A101JA01D	2
D1, D2	Diode, Zener, 5.1V, 300mW, SOD-523	Diodes Inc.	BZT52C5V1T-7	2
·	Fiducial mark. There is nothing to buy or mount.	N/A	N/A	6
FID3, FID4,	and the way of mounts			
FID5, FID6				
	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips	B&F Fastener Supply	NY PMS 440 0025 PH	4
	panhead	1		
-		·	-	

Designator	Description	Manufacturer	PartNumber	Quantity
H5, H6, H7,	Standoff, Hex, 0.5"L #4-40 Nylon	Keystone	1902C	4
H8				
J1	Header, 100mil, 5x2, Tin plated, TH	Sullins Connector	PEC05DAAN	1
10 10 14	TERMINAL PLOCK FORMANCET OPEN TH	Solutions	ED 400/0D0	
J2, J3, J4,	TERMINAL BLOCK 5.08MM VERT 2POS, TH	On-Shore Technology	ED120/2DS	7
J7, J8, J9, J10				
J5, J6	Standard Banana Jack, Uninsulated	Keystone	6095	2
L1	Inductor, Shielded, Composite, 10uH, 3A, 0.084 ohm,	Coilcraft	XAL4040-103MEB	1
	SMD	Comorant	74.2.10.10.10011122	•
L2, L3, L4,	Ferrite Bead, 5 ohm @ 100MHz, 0.7A, 0603	MuRata	BLM18BB050SN1D	4
L9	-			
	Inductor, Shielded Drum Core, Ferrite, 4.7uH, 3.16A,	Wurth Elektronik eiSos	7447779004	2
	0.028 ohm, SMD			
L6	Inductor, Shielded Drum Core, Ferrite, 3.3uH, 2.6A,	Wurth Elektronik eiSos	74408943033	1
17 144	0.031 ohm, SMD	Mustb Flaktropik siCoo	74400042047	2
L7, L11	Inductor, Shielded Drum Core, Ferrite, 4.7uH, 2.2A, 0.045 ohm, SMD	Wurth Elektronik eiSos	74408943047	2
L8	Inductor, Shielded Drum Core, Ferrite, 330nH, 27A,	Wurth Elektronik eiSos	744308033	1
20	0.00037 ohm, SMD	Waran Eloka onik olooo	7 11000000	'
L12	Inductor, Drum Core, Ferrite, 33uH, 0.64A, 0.54 ohm,	Bourns	SDR0403-330KL	1
	SMD			
Q1	Transistor, NPN, 40V, 0.2A, SOT-23	Fairchild Semiconductor	MMBT3904	1
	RES, 100k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW0603100KJNEA	6
R6, R7, R8				
R4	RES, 105k ohm, 0.1%, 0.1W, 0603	Yageo America	RT0603BRD07105KL	1
R5, R10, R14, R30	RES, 20.0k ohm, 0.1%, 0.1W, 0603	Susumu Co Ltd	RG1608P-203-B-T5	4
R9, R29	RES, 88.7k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW040288K7FKED	2
	RES, 10.0k ohm, 0.1%, 0.1W, 0603	Susumu Co Ltd	RG1608P-103-B-T5	7
R15, R31,	,,,,,	0.00		
R33, R34,				
R35				
R12	RES, 12.6k ohm, 0.1%, 0.1W, 0603	Yageo America	RT0603BRD0712K6L	1
	RES, 127k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW0402127KFKED	2
	RES, 63.4k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW040263K4FKED	2
, ,	RES, 49.9 ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW040249R9FKED	8
R25, R40, R41, R42,				
R43, R44				
R20	RES, 0 ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW04020000Z0ED	1
R21	RES, 0.33 ohm, 1%, 0.1W, 0603	Panasonic	ERJ-3RQFR33V	1
R22	RES, 15.0k ohm, 0.1%, 0.1W, 0603	Susumu Co Ltd	RG1608P-153-B-T5	1
R24	RES, 30.0k ohm, 0.1%, 0.1W, 0603	Susumu Co Ltd	RG1608P-303-B-T5	1
R26	RES, 38.3k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW040238K3FKED	1
R27	RES, 133k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW0402133KFKED	1
R28	RES, 10.5k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW040210K5FKED	1
R32	RES, 45.3k ohm, 0.1%, 0.1W, 0603	Yageo America	RT0603BRD0745K3L	1
R37 R38	RES, 84.5k ohm, 1%, 0.063W, 0402 RES, 17.4k ohm, 1%, 0.063W, 0402	Vishay-Dale Vishay-Dale	CRCW040284K5FKED CRCW040217K4FKED	1
R39	RES, 10, 5%, 0.063 W, 0402	Vishay-Dale Vishay-Dale	CRCW040217R4FRED	1
	RES, 68.1k ohm, 1%, 0.1W, 0603	Vishay-Dale Vishay-Dale	CRCW040210K03KED	2
R130	RES, 49.9 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060349K9FKEA	1
R131	RES, 12.1k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW060312K1FKEA	1
TP1, TP9	Test Point, Miniature, Red, TH	Keystone	5000	2
TP2, TP10	Test Point, Miniature, Black, TH	Keystone	5001	2

Designator	Description	Manufacturer	PartNumber	Quantity
TP3, TP5,	Test Point, Multipurpose, Red, TH	Keystone	5010	11
TP7, TP13,				
TP15,				
TP17,				
TP19,				
TP21,				
TP22,				
TP23, TP23				
TP4, TP6,	Test Point, Multipurpose, Black, TH	Keystone	5011	5
TP14,				
TP16, TP18				
TP8, TP11,	Test Point, Multipurpose, Orange, TH	Keystone	5013	7
TP24,				
TP25,				
TP26,				
TP27, TP28				
TP12	Test Point, Miniature, SMT	Keystone	5015	1
U1, U3	Power Sequencer, 6-pin SOT-23		LM3880MF-1AA	2
U2	4.5V to 18V Input, 500mA Synchronous Step Down	Texas Instruments	TPS560200DBV	1
	SWIFT Converter, DBV0005A			
U4, U6	4.5V to 18V Input Voltage, 3A/2A/2A Output Current	Texas Instruments	TPS65261-1RHB	2
	Triple Synchronous Step-Down Converter, RHB0032E			
U5	TPS544B20 18V, 20A PMBUS SYNCHRONOUS BUCK	Texas Instruments	TPS544B20RVF	1
	CONVERTERS, RVF0040A			
U7	IC, Single 2-Input Positive-OR Gate	TI	SN74AHC1G32DCK	1
U8	Single 2-Input Positive-AND Gate, DRL0005A	Texas Instruments	SN74AHC1G08DRL	1

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