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PMP1171_MOTOROLA_REVA BOM

Built on HPA064 EVM for TPS51020

COUNT	RefDes	Description	Size	MFR	Part Number	Value
5	C1	Capacitor, Ceramic, 2.2uF, 35V, X5R	1210	Taiyo Yuden	Std	2.2uF
2	C2	Capacitor, Ceramic, 390pF, 25V, X5R	805	Std	Std	390pF
2	C3	Capacitor, Ceramic, 68pF, 50V, X5R	805	Std	Std	68pF
	C4	Capacitor, Ceramic, 2.2uF, 35V, X5R	1210	Taiyo Yuden	Std	2.2uF
2	C5	Capacitor, Ceramic, 3900pF, 25V, X5R	805	Std	Std	3900pF
4	C6	Capacitor, Ceramic, 0.1uF, 16V, X5R	805	Std	Std	0.1uF
1	C7	Capacitor, Aluminum, 150uF, 6.3V, 12 milliohms, 20%	7343	Panasonic	EEF-UE0J151R	150uF
	C8	Capacitor, Ceramic, 0.1uF, 16V, X5R	805	Std	Std	0.1uF
3	C9	Capacitor, Ceramic, 0.01uF, 16V, X5R	805	Std	Std	0.01uF
	C10	Capacitor, Ceramic, 0.01uF, 16V, X5R	805	Std	Std	0.01uF
	C12	Capacitor, Ceramic, 2.2uF, 35V, X5R	1210	Taiyo Yuden	Std	2.2uF
	C13	Capacitor, Ceramic, 2.2uF, 35V, X5R	1210	Taiyo Yuden	Std	2.2uF
1	C14	Capacitor, Aluminum, SM, 220uF, 35V, 0.16 Ohms	0.328 x 0.328	Panasonic	EEVFK1V221P	220uF
	C15	Capacitor, Ceramic, 390pF, 25V, X5R	805	Std	Std	390pF
	C17	Capacitor, Ceramic, 2.2uF, 35V, X5R	1210	Taiyo Yuden	Std	2.2uF
	C18	Capacitor, Ceramic, 0.1uF, 16V, X5R	805	Std	Std	0.1uF
1	C21	Capacitor, Ceramic, 1000pF, 16V, X7R	805	Std	Std	1000pF
	C22	Capacitor, Ceramic, 3900pF, 25V, X5R	805	Std	Std	3900pF
	C23	Capacitor, Ceramic, 0.01uF, 16V, X5R	805	Std	Std	0.01uF
1	C24	Capacitor, Ceramic, 4.7uF, 6.3V, X5R	805	Std	Std	4.7uF
	C25	Capacitor, Ceramic, 68pF, 50V, X5R	805	Std	Std	68pF
1	C26	Capacitor, Aluminum, 390uF, 2V, 5 milliohms, 20%	7343	Panasonic	EEFSE0D391R	390uF
	C27	Capacitor, Ceramic, 0.1uF, 16V, X5R	805	Std	Std	0.1uF
3	J1	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35	OST	ED1609	ED1609-ND
	J2	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35	OST	ED1609	ED1609-ND
	J3	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35	OST	ED1609	ED1609-ND
3	JP1	Header, 3-pin, 100mil spacing, (36-pin strip)	0.100 x 3	Sullins	PTC36SAAN	
	JP2	Header, 3-pin, 100mil spacing, (36-pin strip)	0.100 x 3	Sullins	PTC36SAAN	
	JP3	Header, 3-pin, 100mil spacing, (36-pin strip)	0.100 x 3	Sullins	PTC36SAAN	
1	L1	Inductor, SMT, 4uH, 8.6A, 8milliohms	0.492 sq	Sumida	CEP125(H)-4R0	4uH
1	L2	Inductor, SMT, 1.8uH, 12A, 3milliohms	0.492 sq	Sumida	CEP125(H)-1R8	1.8uH
2	Q1	Transistor, MOSFET, N-Chan, 30V, 8.4A, Rds 22 milliOhm,	SO8	Fairchild	FDS6612A	FDS6612A
3	Q2	Transistor, MOSFET, N-Chan, 30V, 10A, Rds 16 milliOhm,	SO8	Fairchild	FDS6690S	FDS6690S
1	Q3	Transistor, MOSFET, N-Chan, 30V, 10A, Rds 16 milliOhm,	SO8	Fairchild	OPEN	OPEN
	Q4	Transistor, MOSFET, N-Chan, 30V, 10A, Rds 16 milliOhm,	SO8	Fairchild	FDS6690S	FDS6690S
	Q5	Transistor, MOSFET, N-Chan, 30V, 10A, Rds 16 milliOhm,	SO8	Fairchild	FDS6690S	FDS6690S
	Q6	Transistor, MOSFET, N-Chan, 30V, 8.4A, Rds 22 milliOhm,	SO8	Fairchild	FDS6612A	FDS6612A
2	R1	Resistor, Chip, 49.9 Ohms, 1/10W, 1%	805	Std	Std	49.9
1	R2	Resistor, Chip, 34.8K Ohms, 1/10W, 1%	805	Std	Std	34.8K
2	R3	Resistor, Chip, 4.64k Ohms, 1/10W, 1%	805	Std	Std	4.64k
2	R4	Resistor, Chip, 10k Ohms, 1/10W, 1%	805	Std	Std	10k
8	R5	Resistor, Chip, 100k Ohms, 1/10W, 1%	805	Std	Std	100k

2	R7	Resistor, Chip, 15 Ohms, 1/10W, 1%	805	Std	Std	15
2	R8	Resistor, Chip, 0 Ohms, 1/10W, 1%	805	Std	Std	0
	R9	Resistor, Chip, 49.9 Ohms, 1/10-W, 1%	805	Std	Std	49.9
2	R10	Resistor, Chip, 1M Ohms, 1/10W, 1%	805	Std	Std	1M
1	R11	Resistor, Chip, 3.92 Ohms, 1/10W, 1%	805	Std	Std	3.92
1	R12	Resistor, Chip, 11K Ohms, 1/10W, 1%	805	Std	Std	11K
1	R13	Resistor, Chip, 38.3K Ohms, 1/10W, 1%	805	Std	Std	38.3k
	R14	Resistor, Chip, 100k Ohms, 1/10W, 1%	805	Std	Std	100k
	R15	Resistor, Chip, 100k Ohms, 1/10W, 1%	805	Std	Std	100k
	R16	Resistor, Chip, 100k Ohms, 1/10W, 1%	805	Std	Std	100k
	R18	Resistor, Chip, 1M Ohms, 1/10W, 1%	805	Std	Std	1M
	R19	Resistor, Chip, 0 Ohms, 1/10W, 1%	805	Std	Std	0
	R20	Resistor, Chip, 100K Ohms, 1/10W, 1%	805	Std	Std	100K
	R21	Resistor, Chip, 10k Ohms, 1/10W, 1%	805	Std	Std	10k
	R22	Resistor, Chip, 100k Ohms, 1/10W, 1%	805	Std	Std	100k
	R23	Resistor, Chip, 100K Ohms, 1/10W, 1%	805	Std	Std	100K
2	R24	Resistor, Chip, 243K Ohms, 1/10W, 1%	805	Std	Std	243K
	R25	Resistor, Chip, 4.64k Ohms, 1/10W, 1%	805	Std	Std	4.64k
	R26	Resistor, Chip, 15 Ohms, 1/10W, 1%	805	Std	Std	15
	R27	Resistor, Chip, 100k Ohms, 1/10W, 1%	805	Std	Std	100k
	R28	Resistor, Chip, 243K Ohms, 1/10W, 1%	805	Std	Std	243K
1	R29	Resistor, Chip, 20.5K Ohms, 1/10W, 1%	805	Std	Std	20.5K
10	TP1	Test Point, 0.062 Hole	0.25	Keystone	5012	
	TP2	Test Point, 0.062 Hole	0.25	Keystone	5012	
	TP3	Test Point, 0.062 Hole	0.25	Keystone	5012	
	TP4	Test Point, 0.062 Hole	0.25	Keystone	5012	
	TP5	Test Point, 0.062 Hole	0.25	Keystone	5012	
	TP6	Test Point, 0.062 Hole	0.25	Keystone	5012	
	TP7	Test Point, 0.062 Hole	0.25	Keystone	5012	
	TP8	Test Point, 0.062 Hole	0.25	Keystone	5012	
	TP9	Test Point, 0.062 Hole	0.25	Keystone	5012	
	TP10	Test Point, 0.062 Hole	0.25	Keystone	5012	
3	TP11	Adaptor, 3.5-mm probe clip (or 131-5031-00)	0.2	Tektronix	131-4244-00	
	TP12	Adaptor, 3.5-mm probe clip (or 131-5031-00)	0.2	Tektronix	131-4244-00	
	TP13	Adaptor, 3.5-mm probe clip (or 131-5031-00)	0.2	Tektronix	131-4244-00	
1	TP14	Test Point, 0.062 Hole	0.25	Keystone	5012	5010
1	U1	IC, Dual Sync Step-Down Controller	TSSOP30	TI	TPS51020DBT	TPS51020DBT
1	U17	IC, CMOS Op Amp, Single Supply,	SOT23-5	TI	OPA336N	OPA336N
1	--	PCB, 4.3 In x 2.8 In x .063 In		Any	HPA064	

- Notes:
1. These assemblies are ESD sensitive, ESD precautions shall be observed.
 2. These assemblies must be clean and free from flux and all contaminants.
Use of no clean flux is not acceptable.
 3. These assemblies must comply with workmanship standards IPC-A-610 Class 2.
 4. Ref designators marked with an asterisk (***) cannot be substituted.
All other components can be substituted with equivalent MFG's components.

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