

4/22/03		PMP430	TPS40051 Power Supply BOM			
		Rev E	Texas Instruments			
Qty	RefDes	Part Number	Value	Description	Mfr	Size
1	C11	SR151A101KAA	100pF	Capacitor, Disc, 100pF, 100V, 10%	AVX	0.150 X 0.100
1	C9	SR151A221KAA	220pF	Capacitor, Disc, 220pF, 100V, 10%	AVX	0.150 X 0.100
1	C16	SR151A471KAA	470pF	Capacitor, Disc, 470pF, 100V, 10%	AVX	0.150 X 0.100
1	C12	SR155C332KAA	3300pF	Capacitor, Disc, 3300pF, 50V, 10%	AVX	0.150 X 0.100
2	C20, C21	SR205A152KAA	1500pF	Capacitor, Disc, 1500pF, 50V, COG, 10%	AVX	0.200 X 0.100
1	C5	SR202C472KAA	4700pF	Capacitor, Disc, 4700pF, 200V, 10%	AVX	0.200 X 0.100
1	C7	SR201C153KAA	0.015uF	Capacitor, Disc, 0.015uF, 100V, 10%	AVX	0.200 X 0.100
1	C8	SR205C104KAA	0.1uF	Capacitor, Disc, 0.1uF, 50V, 10%	AVX	0.200 X 0.100
1	C4	SR205C224KAA	0.22uF	Capacitor, Disc, 0.22uF, 50V, 10%	AVX	0.200 X 0.100
2	C10, C18	SR305C105KAA	1uF	Capacitor, Disc, 1uF, 50V, 10%	AVX	0.300 X 0.100
1	C3	ECQV1H105JL	1uF	Capacitor, Film, 1.0uF, 50V, 5%	Panasonic	7.3x8mm
2	C6, C13	EEUF1E102	1000uF	Capacitor, Aluminum, 1000uF, 25V, 38milliohms	Panasonic	12.5x20mm
0	C17, C19	EEUF1E102	Open	Capacitor, Aluminum, 1000uF, 25V, 38milliohms	Panasonic	12.5x20mm
4	C1, C2, C14, C15	EEUF1H122S	1200uF	Capacitor, Aluminum, 1200uF, 50V, 20%	Panasonic	18x25mm
1	D1	1N4148		Diode, Signal, 300-mA, 75-V, 350-mW	Microsemi	DO-35
1	L1	T131-890	17uH	Inductor, 17uH, 20A, 5milliohm, 18TTF #18AWG	Custom	1.5dia"
1	J1	ED1609		Terminal Block, 2-pin, 15-A, 5.1mm	OST	0.40 x 0.35
1	J2	ED1981		Terminal Block, 2-pin, 32-A, 9.5mm	OST	0.75 x 0.49
7	TP1, TP2, TP3, TP4, TP5, TP6, TP7	5012		Test Point, White	Keystone	0.062"
1	R1	CT9W103	10K	Potentiometer, Top Adj., 15 Turn, 10K Ohms, 1/2W, 10%	BC Components	9.6x5.5mm
1	R11	Std	0	Zero Ohm Jumper, 1/4W	Std	Std
5	R3, R14, R15, R16, R17	Std	2.2	Resistor, Carbon Film, 2.2 Ohms, 1/4 watt, 5%, Axial	Std	Std
1	R4	Std	4.7	Resistor, Carbon Film, 4.7 Ohms, 1/4 watt, 5%, Axial	Std	Std
1	R8	MFR-25FRF-1001	1K	Resistor, Metal Film, 1.00K Ohms, 1/4 watt, 1%, Axial	YAGEO	RN55
1	R5	MFR-25FRF-1501	1.50K	Resistor, Metal Film, 1.50K Ohms, 1/4 watt, 1%, Axial	YAGEO	RN55
1	R21	MFR-25FRF-3091	3.09K	Resistor, Metal Film, 3.09K Ohms, 1/4 watt, 1%, Axial	YAGEO	RN55
1	R22	MFR-25FRF-4991	4.99K	Resistor, Metal Film, 4.99K Ohms, 1/4 watt, 1%, Axial	YAGEO	RN55
1	R20	MFR-25FRF-1002	10K	Resistor, Metal Film, 10.0K Ohms, 1/4 watt, 1%, Axial	YAGEO	RN55
1	R10	MFR-25FRF-1302	13.0K	Resistor, Metal Film, 13.0K Ohms, 1/4 watt, 1%, Axial	YAGEO	RN55
1	R9	MFR-25FRF-4992	49.9K	Resistor, Metal Film, 49.9K Ohms, 1/4 watt, 1%, Axial	YAGEO	RN55
1	R2	MFR-25FRF-5492	54.9K	Resistor, Metal Film, 54.9K Ohms, 1/4 watt, 1%, Axial	YAGEO	RN55
1	R6	MFR-25FRF-7872	78.7K	Resistor, Metal Film, 78.7K Ohms, 1/4 watt, 1%, Axial	YAGEO	RN55
2	R7, R12	MFR-25FRF-5363	536K	Resistor, Metal Film, 536K Ohms, 1/4 watt, 1%, Axial	YAGEO	RN55
1	R13	MFR-25FRF-1474	1.47M	Resistor, Metal Film, 1.47M Ohms, 1/4 watt, 1%, Axial	YAGEO	RN55
1	R19	Std	10	Resistor, Carbon Film, 10 Ohms, 1/2 watt, 5%, Axial	Std	Std
4	Q1, Q2, Q3, Q4	SUP70N06-14		MOSFET, N-ch, 60V, 70A, 14milliohm	Vishay	TO-220
1	Q5	MJE181		Transistor, NPN, 60V, 3A	Fairchild	TO-126
1	U1	TPS40051PWP		IC, Wide Input Synchronous Buck Controller, 10-40 V Input	TI	PWP16
1	U2	TL431AIP		IC, Adj. Shunt Regulator, 100mA, 36V	TI	DIP-8

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