

Date: 03/20/2009

PMP2705REVB BOM

COUNT	RefDes	Value	Description	SIZE	Part Number	MFR
1	C1	10n	Capacitor, Ceramic, 50V, X5R, 20%	0603	std	std
1	C2	100n	Capacitor, Ceramic, 50V, X5R, 20%	0603	std	std
4	C3	22uF	Capacitor, Ceramic, 16V, X5R, 20%	1210	C1210C226M4PAC	KEMET
	C4	22uF	Capacitor, Ceramic, 16V, X5R, 20%	1210	C1210C226M4PAC	KEMET
7	C5	4.7uF	Capacitor, Ceramic, 6.3V, X5R, 20%	0603	C0603C475M9PAC	KEMET
	C6	4.7uF	Capacitor, Ceramic, 6.3V, X5R, 20%	0603	C0603C475M9PAC	KEMET
	C7	4.7uF	Capacitor, Ceramic, 6.3V, X5R, 20%	0603	C0603C475M9PAC	KEMET
	C8	4.7uF	Capacitor, Ceramic, 6.3V, X5R, 20%	0603	C0603C475M9PAC	KEMET
	C9	22uF	Capacitor, Ceramic, 16V, X5R, 20%	1210	C1210C226M4PAC	KEMET
	C10	4.7uF	Capacitor, Ceramic, 6.3V, X5R, 20%	0603	C0603C475M9PAC	KEMET
	C11	22uF	Capacitor, Ceramic, 16V, X5R, 20%	1210	C1210C226M4PAC	KEMET
	C12	4.7uF	Capacitor, Ceramic, 6.3V, X5R, 20%	0603	C0603C475M9PAC	KEMET
	C13	4.7uF	Capacitor, Ceramic, 6.3V, X5R, 20%	0603	C0603C475M9PAC	KEMET
3	D1	TS4148RY	Diode, Hi-Speed, 150mA, 100V, 500mW	0805	TS4148RY	Taiwan Semiconductor
	D2	TS4148RY	Diode, Hi-Speed, 150mA, 100V, 500mW	0805	TS4148RY	Taiwan Semiconductor
1	D3	F50360	Diode, RGB Z-Power LED, 350-mA, 1.2W	0.197 x 0.236 inch	F50360	Seoul Semiconductor
1	D5	BZX84-C3V3	Diode, Zener, 3.3V, 250mW, 5%	SOT23	BZX84-C3V3	NXP Semiconductor
	D6	TS4148RY	Diode, Hi-Speed, 150mA, 100V, 500mW	0805	TS4148RY	Taiwan Semiconductor
2	J1	PTC36SAAN	Header, Male 2-pin, 100mil spacing, (36-pin strip)	0.100 inch x 2	PTC36SAAN	Sullins
	J2	PTC36SAAN	Header, Male 2-pin, 100mil spacing, (36-pin strip)	0.100 inch x 2	PTC36SAAN	Sullins
1	J3	RAPC 712	Connector, Pin dia.2.5mm, DC Jack,	0.57 x 0.35 inch	RAPC 712	Switchcraft
1	JP1	850-106-10-S-RA	Header, 1x6-pin, 50mil spacing	1.000 x 0.085 inch	850-10-006-20-001000	Millmax
1	JP2	2514-6002UB	Connector, Male Straight 2x7 pin, 100mil spacing, 4 Wall	0.100 inch x 2X7	2514-6002UB	3M
3	L1	2.2uH	Inductor, SMT, 2.2uH, 1.1A, 110-milliohm	2.5 x 2.0 mm	MIPSA2520D2R2	FDK
	L2	2.2uH	Inductor, SMT, 2.2uH, 1.1A, 110-milliohm	2.5 x 2.0 mm	MIPSA2520D2R2	FDK
	L3	2.2uH	Inductor, SMT, 2.2uH, 1.1A, 110-milliohm	2.5 x 2.0 mm	MIPSA2520D2R2	FDK
1	R1	47.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R2	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R3	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R4	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
6	R5	10.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R6	10.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R7	10.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R8	10.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R9	2R00	Resistor, Chip, 1/8W, 1%	1206	Std	Std
	R10	2R00	Resistor, Chip, 1/8W, 1%	1206	Std	Std
1	R11	68	Resistor, 1/4 watt, ± 5%	1206	Std	Std
	R12	10.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R13	10.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R14	2R00	Resistor, Chip, 1/8W, 1%	1206	Std	Std

1	S1	3315C-001	Encoder, Sealed Incremental, 9 mm Square	0.375 x 0.400 inch	3315C-001	Bourns
9	TP1	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP2	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP3	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP4	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP5	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP6	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP7	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP8	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP9	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
1	U1	MSP430F2131RGE	IC, Mixed Signal Microcontroller	QFN-24	MSP430x21xRGE	TI
3	U2	TPS62260DRV	IC, 2.25MHz 600mA Step-Down Converter	SON-6[DRV]	TPS62260DRV	TI
	U3	TPS62260DRV	IC, 2.25MHz 600mA Step-Down Converter	SON-6[DRV]	TPS62260DRV	TI
	U4	TPS62260DRV	IC, 2.25MHz 600mA Step-Down Converter	SON-6[DRV]	TPS62260DRV	TI
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.					