

BoM for ATX Power Control Board

Component	Description	Value	Count	Mouser Part No.	Package / Dimensions (Lead Spacing)	Other comments
J1-J6	250 Faston tab terminals		6	571-624091		
Pin Connectors	TE Connectivity 40P breakaway header, gold		8	571-41029720		
ATX 24 Pin	Molex ATX 24 pin header		1	538-44206-0007		Purchased
ATX 12V	Molex ATX 12V header		1	538-39-29-9042		Purchased
C1					1206 /3216 (metric)	Not populated
C2					1207 /3216 (metric)	Not populated
C3	Panasonic PPS film capacitor, 50V, 2%	33nF	1	667-ECH-U1H333GX5	1210 / 3225 (metric)	Board has provision for larger 1913 /
C4-C6	Panasonic PPS film capacitor, 50V, 2%	0.1uF	3	667-ECH-U1H104GX9	4.8x3.3mm	4833 (metric) cap as well via C12
C7-C11	Panasonic aluminium organic polymer capacitor, 16V, ESR 10m	470uF	5	667-16SEPC470M	10x13mm (5mm)	Purchased
C12	Panasonic PPS film capacitor, 50V, 2%	68nF		667-ECH-U1H683GX9	1913 / 4833 (metric)	
Q1-Q2	Fairchild Semi MOSFET n-channel 60V 115mA transistor	2N7002	2	512-2N7002	SOT-23-3	Purchased
Q3-Q5	International Rectifier 40V, 195A 1.8m Ohm MOSFET	IRFS7437PBF	3	942-IRFS7437PBF	D2PAK2	
U1-U3	Vishay photodiode optocouple MOSFET driver	VOM1271T	3	78-VOM1271T	SOP-4	
R1-R2	Panasonic thick film resistors 1%, SMD 1206/3216, 250mW, 200V	243 Ohms	2	667-ERJ-8ENF2430V	3.2x1.6mm	
R3	Panasonic thick film resistors 1%, SMD 1206/3216, 250mW, 200V	499 Ohms	1	667-ERJ-8ENF4990V	3.2x1.6mm	
R4	Panasonic thick film resistors 1%, SMD 1206/3216, 250mW, 200V	47k Ohms	1	667-ERJ-8ENF4702V	3.2x1.6mm	
R5	Panasonic thick film resistors 1%, SMD 1206/3216, 250mW, 200V	48.7 Ohms	1	667-ERJ-8ENF48R7V	3.2x1.6mm	
R6, R8, R9, R11, R12, R13	Panasonic thick film resistors 1%, SMD 1206/3216, 250mW, 200V	2.49k	6	667-ERJ-8ENF2491V	3.2x1.6mm	
R7	Panasonic thick film resistors 1%, SMD 1206/3216, 250mW, 200V	63.4 Ohms	1	667-ERJ-8ENF63R4V	3.2x1.6mm	
R10	Panasonic thick film resistors 1%, SMD 1206/3216, 250mW, 200V	422 Ohms	1	667-ERJ-8ENF4220V	3.2x1.6mm	
LED1	Kingbright through hole red LED, 5V resistor		1	604-WP710A10ID5V	3mm	
TPS3510	TI supervisory circuit 3.3V, 5V, 12V	TPS3510P	1	595-TPS3510P	PDIP-8	Purchased
D1-D2	Diodes Incorporated Schottky diodes 1A 30V	B130B	2	621-B130B-F	SMB	
CTS 208-4	CTS Electronics DIP switch 4 pos 2.54mm pitch	208-4	1	774-2084		
OA1-OA2	Linear Technology low noise rail to rail precision op amp	LT1677	2	In stock at Farnell	SOIC-8	Link