Bill Of Materials

Item	Designator	Quantity	DigiKey Part Number
1	5V, 12V, FAN0_1, FAN1_1, PS_ON, PWR	6	3M9447-ND
2	5V_SEL, VFA0_sel, VFA1_sel, VHE2_sel, X+, X-, Y+, Y-, Z+, Z-	10	3M9448-ND
3	C1	1	565-2251-1-ND
4	C2	1	565-2204-1-ND
5	C21-C25, C30-C32	8	PCE5016CT-ND
6	C3-C7, C11, C13, C16, C18, C33	10	311-1344-1-ND
7	C8, C14, C15, C19, C20	5	478-6204-1-ND
8	C9, C12, C26-C29	6	445-1604-1-ND
9	D1, D6, D7	3	S1GFSCT-ND
10	D2-D4	3	CD1206-S01575CT-ND
11	D5	1	DB2W40200LCT-ND
12	D8	1	1655-1602-1-ND
13	D9-D14	6	S2BA-FDICT-ND
14	E0-E2, X, Y, Z	6	S7006-ND
15	E0_MOT, E1_MOT, E2_MOT, X_MOT, Y_MOT, Z_MOT	6	277-5744-ND
16	E0_MOT_A, E1_MOT_A, E2_MOT_A, ENC_1-ENC_4, USB_H, X_MOT_A, Y_MOT_A, Z_MOT_A	11	3M9449-ND
17	E0_MS, E1_MS, E2_MS, X_MS, Y_MS, Z_MS	6	732-3853-1-ND
18	EXP1, EXP2, Thermistors	4	3M9460-ND
19	EXP3	1	3M15450-ND
20	F1, F2	2	BK-6013-ND
21	FAN0, FAN1, HE0-HE2	5	277-5719-ND
22	HB-OUT, HB-PWR, MAIN-PWR	3	277-6405-ND
23	IC1	1	ATMEGA2560-16AU-ND
24	IC2	1	ATMEGA16U2-AU-ND
25	IC4	1	785-1613-1-ND
26	IC5	1	296-35399-1-ND
27	ISP1, ISP2	2	3M9459-ND
28	J2	1	151-1206-1-ND
29	L1	1	490-1054-1-ND
30	L3	1	SRN6045TA-330MCT-ND
31	L4	1	SRN8040TA-470MCT-ND
32	LD2-LD7, Power	7	475-1410-1-ND
33	LED1, RX, TX	3	475-2560-1-ND
34	Q1-Q6	6	568-10156-1-ND
35	R1, R9	2	311-1.00MHRDKR-ND
36	R2, R3, R6, R11, R12, R21, R23, R25, R27, R29, R45	11	311-10.0KHRCT-ND
37	R22, R24, R26, R28, R30, R32, R35, R38, R44, R47, R49, R52	12	311-100KHRCT-ND
38	R31, R34, R37, R46, R48, R51	6	311-10.0HRCT-ND
39	R4, R13-R18, R33, R36, R39, R50, R53, R55, R56	14	311-1.00KHRCT-ND
40	R40-R43, R54	5	311-4.7KGRCT-ND
41	R5	1	311-53.6KHRCT-ND
42	R57	1	311-8.66KHRCT-ND
43	R7, R8	2	311-22.0HRCT-ND
44	Reset	1	679-2396-1-ND
45	Y1, Y2	2	535-9041-ND
46	Z1, Z2	2	CG0603MLC-05ECT-ND

GND	PK7
GND	PK6
GND	PK5
GND	PK4
GND	PK3

Note:

1. Text element with square border.

2. Text element with no border

3. Text element with circle border

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL± ANGULAR: MACH± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN		12/24/2016
	CHECKED		
	ENG APPR.		
	MFG APPR.		
INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
MATERIAL	COMMENTS:		
FINISH			

TITLE

NEXT ASSY   USED ON

APPLICATION   DO NOT SCALE DRAWING

SIZE   DWG. NO.

SCALE: 1:1   WEIGHT: SHEET 1 OF 1