











Bill of Materials						
Project:	BMS_AFE.PrjPcb					
Revision:	3.1					
Project Lead:	Kevin Chen, Taiping Li					
Generated On:	2018-02-23 8:37:52 PM					
Production Quantity:	1					
Currency	CAD					
Total Parts Count:	146					



LibRef	Designator	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Order Qty 1	Supplier	r Subtotal 1
CAP CER 2.2UF 100V ±20% X7R 1206	C1	Murata Electronics North America	GRM31CR72A225MA73L	Digi-Key	490-12773-1-ND	0	1	\$	-
CAP CER 10uF 25V 20% X5R 0603	C2	Murata Electronics North America	GRM188R61E106MA73D	Digi-Key	490-7202-1-ND	0.55	1	\$	0.55
CAP CER 1UF 50V 10% X7R 0603	C3, C18, C19, C22	Taiyo Yuden	UMK107AB7105KA-T	Digi-Key	587-3247-1-ND	0.36	4	\$	1.44
CAP CER 2.2UF 25V 10% X5R 0603	C4	Murata Electronics North America	GRM188R61E225KA12D	Digi-Key	490-10731-1-ND	0.21	1	\$	0.21
CAP CER 10nF 50V 5% X7R 0603	C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C24	<u>KEMET</u>	C0603C103J5JAC7867	Digi-Key	399-13384-1-ND	0.239	14	\$	3.35
CAP CER 0.1UF 100V 10% X7R 0805	C20, C21	Murata Electronics North America	GCM21BR72A104KA37L	Digi-Key	490-4789-1-ND	0.21	2	\$	0.42
CAP CER 0.1UF 50V 10% X7R 0603	C23	AVX Corporation	06035C104KAT2A	Digi-Key	478-5052-1-ND	0.13	1	\$	0.13
CAP CER 20PF 50V ±5% C0G/NP0 0603	C25, C26	Murata Electronics North America	GRM1885C1H200JA01D	Digi-Key	490-1410-1-ND	0.15	2	\$	0.30
DIODE ZENER 6.2V 5W DO214AA	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12	Micro Commercial Co	SMBJ5341B-TP	Digi-Key	SMBJ5341B-TPMSCT- ND	0.798	12	\$	9.58
FUSE SMT 750MA	F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, F13	Bel Fuse Inc.	C2Q 750	Digi-Key	507-1090-1-ND	0.411	13	\$	5.34
FUSE 250MA 32VDC 0603	F14, F15	AVX Corporation	F0603E0R25FSTR	Digi-Key	478-2858-1-ND	0.55	2	\$	1.10
IND 220uH 0.59A 20%	L1	Laird-Signal Integrity Products	TYS6045221M-10	Digi-Key	240-2742-1-ND	0.78	1	\$	0.78
LED RED CLEAR 2V 0603	LED1	Wurth Electronics Inc.	150060RS75000	Digi-Key	732-4978-1-ND	0.19	1	\$	0.19
LED GREEN CLEAR 2V 0603	LED2	Wurth Electronics Inc.	150060VS75000	Digi-Key	732-4980-1-ND	0.19	1	\$	0.19
CONN 6POS DURA-CLIK 0.079"	P1	Molex, LLC	5600200620	Digi-Key	WM10866CT-ND	1.61	1	\$	1.61
CONN 8POS DURA-CLIK 0.079"	P2, P3, P4	Molex, LLC	5600200820	Digi-Key	WM10868CT-ND	1.92	3	\$	5.76
CONN 4POS HEADR MALE 0.1"	P5	Wurth Electronics Inc.	61300411121	Digi-Key	732-5317-ND	0.24	1	\$	0.24
CONN 2POS DURA-CLIK 0.079" VERT	P6, P7	Molex, LLC	5600200220	Digi-Key	WM10862CT-ND	1.09	2	\$	2.18
MOSFET P-CH 16V 2.5A X2-DFN2015	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12	Diodes Incorporated	DMG3415UFY4Q-7	Digi-Key	DMG3415UFY4Q-7DICT- ND	0.53	12	\$	6.36
RES 33K OHM 1% 1/4W 0603	R1	Panasonic Electronic Components	ERJ-PA3F3302V	Digi-Key	P33KBYCT-ND	0.23	1	\$	0.23
RES 820 OHM 5% 1/4W 0603	R2	Rohm Semiconductor	ESR03EZPJ821	Digi-Key	RHM820DCT-ND	0.14	1	\$	0.14
RES 3.3K OHM 1% 1/4W 0603	R3, R41, R42, R43, R44, R45, R46, R53, R54, R55, R56, R57, R58	Panasonic Electronic Components	ERJ-PA3F3301V	Digi-Key	P3.3KBYCT-ND	0.205	13	\$	2.67
RES 10K OHM 1% 1/10W 0603	R4, R59	Yageo	RC0603FR-0710KL	Digi-Key	311-10.0KHRCT-ND	0.14	2	\$	0.28
RES 191K OHM 1% 1/10W 0603	R5	Yageo	RC0603FR-07191KL	Digi-Key	311-191KHRCT-ND	0.14	1	\$	0.14
RES 39.2K OHM 1% 1/10W 0603	R6	Yageo	RC0603FR-0739K2L	Digi-Key	311-39.2KHRCT-ND	0.14	1	\$	0.14
RES 255K OHM 1% 1/10W 0603	R7	Yageo	RC0603FR-07255KL	Digi-Key	311-255KHRCT-ND	0.14	1	\$	0.14
RES 0.0 OHM 1/4W 0603	R8, R25, R27, R28	Vishay Dale	CRCW06030000Z0EAHP	Digi-Key	541-0.0SBCT-ND	0.24	4	\$	0.96
RES 100 OHM 1% 1/10W 0603	R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R29, R60	<u>Yageo</u>	RC0603FR-07100RL	Digi-Key	311-100HRCT-ND	0.021	15	\$	0.32
RES 1.4k OHM 1% 1/10W 0603	R23	<u>Yageo</u>	RC0603FR-071K4L	Digi-Key	311-1.40KHRCT-ND	0.14	1	\$	0.14
RES 604 OHM 1% 1/10W 0603	R24	Yageo	RC0603FR-07604RL	Digi-Key	311-604HRCT-ND	0.14	1	\$	0.14
RES 4.7K OHM 1% 1/10W 0603	R30, R31, R32, R33, R34	<u>Yageo</u>	RC0603FR-074K7L	Digi-Key	311-4.70KHRCT-ND	0.14	5	\$	0.70
RES 15 OHM 1% 2W 2512	R35, R36, R37, R38, R39, R40, R47, R48, R49, R50, R51, R52	TE Connectivity Passive Product	352115RFT	Digi-Key	A115988CT-ND	0.68	12	\$	8.16
RES 120 OHM 1% 1/10W 0603	R61, R64	Yageo	RC0603FR-07120RL	Digi-Key	311-120HRCT-ND	0.14	2	\$	0.28
Thru Test Point	TH_TP1								
Thru Test Point	TH_TP2, TH_TP4								
Thru Test Point	TH_TP3								
Test Point	TP1								
IC REG BUCK ADJ 0.1A 10UMAX	U1	Maxim Integrated	MAX17552AUB+	Digi-Key	MAX17552AUB+-ND	3.81	1	\$	3.81
IC REG LDO 5V 0.1A SOT23-5	U2	STMicroelectronics	LD2981CM50TR	Digi-Key	497-7787-1-ND	0.84	1	\$	0.84
IC MONITOR BATT STACK 48SSOP	U3	Linear Technology	LTC6804IG-1#PBF	Digi-Key	LTC6804IG-1#PBF-ND	27.09	1	\$	27.09
IC MUX/DEMUX 1X16 24SSOP	U4	Texas Instruments	CD74HC4067SM96	Digi-Key	296-9226-1-ND	1.25	1	\$	1.25
IC OP AMP GEN PURPOSE RR 10MHZ SOT-23-	U5	Texas Instruments	TLV316QDBVRQ1	Digi-Key	296-45323-1-ND	1.21	1	\$	1.21
IC PULSE XFMR 1CT:1CT 350UH SMD	XFMR1	Bourns Inc.	PT61018AAPEL-S	Digi-Key	PT61018AAPEL-SCT-ND	2.47	1	\$	2.47
						·	Total:	\$	90.83



