







Bill of Materials						
Project:	BMS_Current_Sense.PrjPcb					
Revision:	2.1					
Project Lead:	Taiping Li					
Generated On:	2018-02-07 9:47:28 PM					
Production Quantity:	1					
Currency	CAD					
Total Parts Count:	47					



LibRef	Designator	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Order Qty 1	Supplie	er Subtotal 1
CAP CER 4.7UF 50V 10% X5R 0805	C1	Murata Electronics North America	GRT21BR61H475ME13L	Digi-Key	490-12395-1-ND	0.56	1	\$	0.56
CAP CER 2.2UF 25V 10% X5R 0603	C2, C3	Murata Electronics North America	GRM188R61E225KA12D	Digi-Key	490-10731-1-ND	0.21	2	\$	0.42
CAP CER 1UF 50V 10% X7R 0603	C4, C5	Taiyo Yuden	UMK107AB7105KA-T	Digi-Key	587-3247-1-ND	0.33	2	\$	0.66
CAP CER 0.1UF 50V 10% X7R 0603	C6, C10, C11, C12, C15	AVX Corporation	06035C104KAT2A	Digi-Key	478-5052-1-ND	0.13	5	\$	0.65
CAP CER 0.022UF 50V 10% X7R 0603	C7	Murata Electronics North America	GRM188R71H223KA01D	Digi-Key	490-1517-1-ND	0.15	1	\$	0.15
CAP CER 10uF 25V 10% X5R 0805	C8	Murata Electronics North America	GRM21BR61E106KA73L	Digi-Key	490-5523-1-ND	0.28	1	\$	0.28
CAP TANT 1UF 25V 10% 0805	C9	AVX Corporation	TAJR105K025RNJ	Digi-Key	478-8928-1-ND	0.95	1	\$	0.95
CAP CER 10nF 50V 5% X7R 0603	C13	KEMET	C0603C103J5JAC7867	Digi-Key	399-13384-1-ND	0.35	1	\$	0.35
CAP CER 20PF 50V ±5% C0G/NP0 0603	C14	Murata Electronics North America	GRM1885C1H200JA01D	Digi-Key	490-1410-1-ND	0.15	1	\$	0.15
IND 10uH 0.9A 20% 1210	L1	Murata Electronics North America	1277AS-H-100M=P2	Digi-Key	490-10589-1-ND	0.36	1	\$	0.36
IND 6.8uH 260mA 20% 1210	L2	TDK Corporation	NLFV32T-6R8M-EF	Digi-Key	445-15776-1-ND	0.59	1	\$	0.59
LED YELLOW CLEAR 2.1V 0603	LED1	Wurth Electronics Inc.	150060YS75000	Digi-Key	732-4981-1-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
RES 120 OHM 1% 1/10W 0603	R1, R7	Yageo	RC0603FR-07120RL	Digi-Key	311-120HRCT-ND	0.14	2	\$	0.28
RES SHUNT 100UOHM 5% 36W 60MM	R2	<u>Vishay Dale</u>	WSBM8518L1000JK	Digi-Key	541-1906-ND	19.08	1	\$	19.08
RES ARRAY 2K OHM 0.25% 2RES 0606	R3	Vishay Beyschlag	ACASN2001E2001P1AT	Digi-Key	ACASN-2.0K/2.0K- EATCT-ND	1.89	1	\$	1.89
RES 4.7K OHM 1% 1/10W 0603	R4	Yageo	RC0603FR-074K7L	Digi-Key	311-4.70KHRCT-ND	0.14	1	\$	0.14
RES 2K OHM 1% 1/10W 0603	R5, R6	Yageo	RC0603FR-072KL	Digi-Key	311-2.00KHRCT-ND	0.14	2	\$	0.28
RES 1.4k OHM 1% 1/10W 0603	R8	Yageo	RC0603FR-071K4L	Digi-Key	311-1.40KHRCT-ND	0.14	1	\$	0.14
RES 604 OHM 1% 1/10W 0603	R9	Yageo	RC0603FR-07604RL	Digi-Key	311-604HRCT-ND	0.14	1	\$	0.14
Test Point	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12								
IC DCDC ISOLATED 12V 1W 8-SMD 5-LEAD	U1	XP Power	ISE1212A	Digi-Key	1470-2950-1-ND	6.68	1	\$	6.68
IC REG LDO 5V 0.1A SOT23-5	U2	STMicroelectronics	LD2981CM50TR	Digi-Key	497-7787-1-ND	0.84	1	\$	0.84
IC VREF SERIES 4.096V 5MA SOT23-5	U3	Texas Instruments	LM4120AIM5-4.1/NOPB	Digi-Key	<u>LM4120AIM5-</u> 4.1/NOPBCT-ND	3.11	1	\$	3.11
IC ADC 24BIT 10-DFN	U4	Linear Technology	LTC2484CDD#PBF	Digi-Key	LTC2484CDD#PBF-ND	7.13	1	\$	7.13
IC CURRENT AMPLIFIER INA240 8-TSSOP	U5	Texas Instruments	INA240A3PWR	Digi-Key	296-45090-1-ND	3.76	1	\$	3.76
IC ISOSPI COMM INTERFACE LTC6820IUD	U6	Linear Technology/Analog Devices	LTC6820IUD#PBF	Digi-Key	LTC6820IUD#PBF-ND	7.1	1	\$	7.10
IC PULSE XFMR 1CT:1CT 350UH SMD	XFMR1	Bourns Inc.	PT61018AAPEL-S	Digi-Key	PT61018AAPEL-SCT-ND	2.47	1	\$	2.47
							Total:	\$	58.54



