







Bill of Materials					
Project:	BMS_Current_Sense.PrjPcb				
Revision:	2.2				
Project Lead:	Taiping Li				
Generated On:	2018-02-11 6:27:06 PM				
Production Quantity:	1				
Currency	CAD				
Total Parts Count:	35				



LibRef	Designator	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Order Qty 1	Supplier Subtotal	11
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	<u>UMK107AB7105KA-T</u>	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	<u>KEMET</u>	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 100uH 60mA 5% 1210	L1	EPCOS (TDK)	B82422T1104J000	Digi-Key	495-5646-1-ND	0.65	1		0.65
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	Vishay Dale	WSBM8518L1000JK	Digi-Key	541-1906-ND	19.08	1		9.08
RES ARRAY 10K OHM 0.1% 2RES 0606	R3	Vishay Beyschlag	ACASN1002S1002P1AT	Digi-Key	749-1046-1-ND	0.84	1		0.84
RES 4.7K OHM 1% 1/10W 0603	R4	<u>Yageo</u>	RC0603FR-074K7L	Digi-Key	311-4.70KHRCT-ND	0.14	1	\$ (0.14
RES 2K OHM 1% 1/10W 0603	R5, R6	<u>Yageo</u>	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	<u>Yageo</u>	RC0603FR-07604RL	Digi-Key	311-604HRCT-ND	0.14	1		0.14
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	3.76
IC ISOSPI COMM INTERFACE LTC6820IUD	U6	Linear Technology/Analog Devices	LTC6820IUD#PBF	Digi-Key	LTC6820IUD#PBF-ND	7.1	1	\$ 7	7.10
IC PULSE XFMR 1CT:1CT 350UH SMD	XFMR1	Bourns Inc.	PT61018AAPEL-S	Digi-Key	PT61018AAPEL-SCT-ND	2.47	1	\$ 2	2.47
							Total:	\$ 57	7.78



