





Title		
Top Level Diagram		
Size	Number	Revision
A		
Date:	6/17/2019	Sheet of
File:	D:\Documents\...\BMS Master.SchDoc	Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
RCU-OC		ASV	RCU-OC		5
Capacitor MLCC 27pf 25V CAP 0603/1608		C1	CAP 0603/1608		515
Capacitor MLCC 27pf 25V CAP 0603/1608		C2	CAP 0603/1608		515
Capacitor MLCC 0.10uf 25V CAP 0603/1608		C3	CAP 0603/1608		583
Capacitor MLCC 10uf 25V CAP 0603/1608		C4	CAP 0603/1608		595
Capacitor MLCC 0.10uf 25V CAP 0603/1608		C5	CAP 0603/1608		583
Capacitor MLCC 0.10uf 16V CAP 0603/1608		C6	CAP 0603/1608		223
Capacitor MLCC 10uf 25V CAP 0603/1608		C7	CAP 0603/1608		595
Capacitor MLCC 10uf 25V CAP 0603/1608		C8	CAP 0603/1608		595
Capacitor MLCC 10uf 25V CAP 0603/1608		C9	CAP 0603/1608		595
Capacitor MLCC 0.10uf 50V CAP 0603/1608		C11	CAP 0603/1608		943
Capacitor MLCC 4700pf 50V CAP 0603/1608		C12	CAP 0603/1608		929
Capacitor MLCC 0.10uf 25V CAP 0603/1608		C17	CAP 0603/1608		583
Capacitor MLCC 0.10uf 25V CAP 0603/1608		C18	CAP 0603/1608		583
Capacitor MLCC 0.10uf 25V CAP 0603/1608		C19	CAP 0603/1608		583
Capacitor MLCC 100pf 25V CAP 0603/1608		C23	CAP 0603/1608		529
Capacitor MLCC 0.10uf 25V CAP 0603/1608		C24	CAP 0603/1608		583
RCU-OC		CS	RCU-OC		5
DD29701-7	Zener Diode 14V 500mW	D1	SOD123F		10
DIODE	DIODE SCHOTTKY 30V	D2	SOD-128		12
		D4	0805_LED		2
		D5	0805_LED		1
RCU-OC		D5V	RCU-OC		5
LED		D6	0805_LED		1
LED		D7	0805_LED		2
LED		D8	0805_LED		2
LED		D9	0805_LED		2
2.2A	Fuse	F1	PTC Fuse 1206/3216		8
RCU-OC	Test point	ISON	RCU-OC		14
RCU-OC	Test point	ISOP	RCU-OC		14
1981568-1	USB Micro Type B	J1	TECO-1981568-5 V		5
DMG2302UK-7	MOSFET N-CHANNEL	M1	SOT23-3		6
DMG2302UK-7	MOSFET N-CHANNEL	M2	SOT23-3		6
RCU-OC		MI	RCU-OC		5
RCU-OC		MO	RCU-OC		5
2-1445054-8	1x8 connector	P1	2-1445054-8		12
2-1445054-8	1x8 connector	P2	2-1445054-8		12
5103309-1	2 row connector	P3	HDR2X5 SMT		4
LED		POWER	0805_LED		2
Resistor 10k 0603 1/10W 5%		R1	RES 0603/1608		1393
Resistor 10k 0603 1/10W 5%		R2	RES 0603/1608		1393
Resistor 120 0603 1/10W 5%		R3	RES 0603/1608		1347
Resistor 470 0603 1/10W 5%		R4	RES 0603/1608		1361
Resistor 47k 0603 1/10W 5%		R5	RES 0603/1608		1409
Resistor 1.5k 0603 1/10W 5%		R6	RES 0603/1608		1373
Resistor 1.0k 0603 1/10W 5%		R7	RES 0603/1608		1369
Resistor 10k 0603 1/10W 1%		R8	RES 0603/1608		313
Resistor 10k 0603 1/10W 5%		R9	RES 0603/1608		1393
Resistor 470 0603 1/10W 5%		R10	RES 0603/1608		1361
Resistor 10k 0603 1/10W 1%		R11	RES 0603/1608		313
Resistor 470 0603 1/10W 5%		R12	RES 0603/1608		1361
Resistor 200 0603 1/10W 5%		R13	RES 0603/1608		1352
Resistor 200 0603 1/10W 5%		R14	RES 0603/1608		1352
Resistor 10k 0603 1/10W 1%		R15	RES 0603/1608		313
Resistor 62 0603 1/10W 5%		R16	RES 0603/1608		1340
Resistor 62 0603 1/10W 5%		R17	RES 0603/1608		1340
Resistor 100 0603 1/10W 10%		R18	RES 0603/1608		2293
Resistor 470 0603 1/10W 5%		R19	RES 0603/1608		1361
Resistor 470 0603 1/10W 5%		R20	RES 0603/1608		1361
Resistor 1.0k 0603 1/10W 5%		R21	RES 0603/1608		1369
Resistor 1.0k 0603 1/10W 5%		R22	RES 0603/1608		1369
Resistor 1.0k 0603 1/10W 5%		R23	RES 0603/1608		1369
Resistor 1.0k 0603 1/10W 5%		R24	RES 0603/1608		1369
RCU-OC		RX	RCU-OC		5
RCU-OC		SCK	RCU-OC		5
DMG2302UK-7	MOSFET N-CHANNEL	T1	SOT23-3		6
RCU-OC		TX	RCU-OC		5
HX1188NLT		U1	HX1188NLT		8
LT6820	soSPI Isolated Communications Interface	U2	MSOP-16		7
NCP1117S5T0T3G	Linear Voltage Regulator	U3	SOT-223-3		16
MCP2561 CAN Transceiver		U4	SOIC-8		5
NCP1117S5T0T3G	Linear Voltage Regulator	U5	SOT-223-3		16
FT232RL		U6	SSOP-28		3
		U7	TOFP64		1
comment	Buffer dual high speed	U8	6-TSSOP		10