Designator C1C1, C1C2, C1C3,	Part Number C0805C102J2GECAUTO	Manufacturer KEMET	Quantity	Comment 1 nF	Description MLCC Ceramic 1 nF 200 V 5%	CAP 0805_2012
C1C4 C2C1, C2C2, C2C3,			-		Capacitor MLCC Ceramic 10 nF 50 V 10%	
C2C4 C3C1, C3C2, C3C3,	C0805C103K5GEC7210	KEMET	4	1 10 nF	Capacitor MLCC Ceramic 100 nF 50 V 10%	CAP 0805_2012
C3C4, C18	08055C104K4Z2A	AVX		5 100 nF	Capacitor	CAP 0805_2012
C4, C11, C13, C15, C16, C17, C28, C29, C31, C34	0603YC104KAT2A	AVX	10	0 100 nF	MLCC Ceramic 100 nF 16 V 10% Capacitor	CAP 0603_1608
C5, C6, C7, C8	0603ZA102JAT4A	AVX	4	1 1 nF	MLCC Ceramic 1 nF 10 V 5% Capacitor	CAP 0603_1608
C9, C10	06035A6R8C4T4A	AVX	2	2 6.8 pF	MLCC Ceramic 6.8 pF 50 V 0.25 pF Capacitor	CAP 0603_1608
C12	0603YC105KAT2A	AVX	1	1 uF	MLCC Ceramic 1 uF 16 V 10% Capacitor	CAP 0603_1608
C14	GRM188Z71A475ME15D	Murata	1	1 4.7 uF	MLCC Ceramic 4.7 uF 10 V 20%	CAP 0603_1608
C19	HHXA630ARA220MF80G	United Chemi-Con	1	1 22 uF	Capacitor Aluminum Electrolytic 22 uF 63	CAP ALSMD
C20	12065C225K4T2A	AVX	,	1 2.2 uF	V 20% Capacitor MLCC Ceramic 2.2 uF 50 V 10%	6.3MM H7.7MM CAP 1206_3216 -
C21, C22	1206YC106KAT2A	AVX		2 10 uF	Capacitor MLCC Ceramic 10 uF 16 V 10%	1.8MM CAP 1206_3216 -
C23, C25, C27, C35	0805YC106MAT2A	AVX	4	1 10 uF	Capacitor MLCC Ceramic 10 uF 25 V 20%	1.8MM CAP 0805_2012
C24, C26	0805YC104KAT4A	AVX	2	2 100 nF	Capacitor MLCC Ceramic 100 nF 16 v 10%	CAP 0805_2012
C30, C32	0805YC105KAT4A	AVX	2	2 1 uF	Capacitor MLCC Ceramic 1 uF 16 V 10%	CAP 0805_2012
C33	06033C105KAT4A	AVX	1	I 1 uF	Capacitor MLCC Ceramic 1 uF 25 V 10%	CAP 0603_1608
C36	06035C104K4Z2A	AVX	1	1 100 nF	Capacitor MLCC Ceramic 100 nF 50 V 10%	CAP 0603_1608
					Capacitor MLCC Ceramic 68 pF 100 V 1%	_
C37, C39	06031A680FAT2A	AVX	4	2 68 pF	Capacitor MLCC Ceramic 47 pF 100 V 1%	CAP 0603_1608
C38	06031U470FAT2A	AVX	1	I 47 pF	Capacitor MLCC Ceramic 10 nF 16 V 5%	CAP 0603_1608
C40 D1C1, D1C2, D1C3,	C0603C103J4GACTU	KEMET	1	10 nF	Capacitor Capacitor	CAP 0603_1608
D1C4, D5C1, D5C2, D5C3, D5C4	BAT46JFILM	STMicroelectronics	8	BAT46JFILM	Schottky Diode	SOD323
D2C1, D2C2, D2C3, D2C4, D4C1, D4C2, D4C3, D4C4	CDSU101A-HF	Comchip Technology	8	3 CDSU101A-HF	General Purpose Diode	SOD523F
D3C1, D3C2, D3C3, D3C4	SM6T39CAY	STMicroelectronics	4	SM6T39CAY	TVS Diode	DO214AA SMB
D6C1, D6C2, D6C3, D6C4	BZX384C3V3-E3-08	Vishay	4	BZX384C3V3-E3-08	Zener Diode 3.3 V 200 mW	SOD323
D7 D8	MMSZ5240BS-7-F MBRA160	Diodes Incorporated ON Semiconductor		MMSZ5240BS-7-F MBRA160	Zener 200 mW 10 V Schottky Rectifier Diode	SOD-123 DO214AC SMA
D9, D10	MBR0520L	ON Semiconductor	2	MBR0520L	Schottky Rectifier Diode	SOD-123
D11	CDSOT23-SM712	Bourns	1	CDSOT23-SM712	CAN bus TVS diode	BOURNS SOT-23-3
F1	NANOASMDC012F-2	Littelfuse	1	NANOASMDC012F-2	PPTC .12A 48V Nano SMD AEC- Q200	PPTC_1206_1MM
FB1C1, FB1C2, FB1C3, FB1C4, FB2C1, FB2C2, FB2C3, FB2C4, FB3	BLM21SP601SH1D	Murata Electronics	ç	9 600 Ohms	Ferrite bead	FER 0805_2012
IC1 J1C1, J1C2, J1C3, J1C4,	ZXMP10A18GTA 1757475	Diodes Incorporated Phoenix Contact	1	2XMP10A18GTA 5 1757475	MOSFET 100V P-Chnl UMOS Pluggable Terminal Blocks 2 Pos 5mm pitch Through Hole	DIODES SOT-223 MSTBA2
J3 J2	SHF-105-01-L-D-TH	Samtec	1	SHF-105-01-L-D-TH	Header Shrouded Terminal Strip, 0.050	SHF-105-01-X-D-
J4	09681537613	Harting	1	09681537613	DSUB SV FE SSDP ANG-US 09P AU3	TH DSUB9
JP1, JP2	61300211121	Würth Elektronik	2	2 61300211121	Connector Header Through Hole 2 position 0.100 (2.54mm)	JUMPER-100
L1	SRR1210-680M	Bourns	1	68 uH	Shielded SMD Power Inductor 68 uH 3 A	SRR1210
L2	ACT45B-510-2P-TL003	TDK	1	51 uH	CAN Bus Common Choke	TDK_ACT45B LED 0603_1608
LED1, LED2	APTD1608LZGCK	Kingbright		APTD1608LZGCK	SMD Low Current Green LED	GREEN LED 0603_1608
LED3, LED4 Q1C1, Q1C2, Q1C3,	APTD1608LSECK	Kingbright		2 APTD1608LSECK	SMD Low Current Red LED	RED NEXPERIA SOT-23-
Q1C4 R1C1, R1C2, R1C3,	MMBT3906,215 PAT0805E25R0BST1	Nexperia		MMBT3906,215 1 25 Ohms	PNP BJT Switching transistor Thin Film Resistor 25 Ohms	3 RES 0805_2012
R1C4 R2C1, R2C2, R2C3,		Vishay			0.1%	
R2C4, R3C1, R3C2, R3C3, R3C4 R4C1, R4C2, R4C3,	CRCW080510K0FKEAC	Vishay / Dale		3 10 kOhms	Thin Film Resistor 10 kOhms 1%	
R4C4	CRCW0805100RFKEAC	Vishay / Dale	4	100 Ohms	Thin Film Resistor 100 Ohms 1%	
R5, R7, R9, R11	CRCW060362K0FKEAC	Vishay / Dale	4	4 62 kOhms	Thin Film Resistor 62 kOhms 1% Inline Multitourn 10 kOhms	POT BOURNS
R6, R8, R10, R12 R13, R14, R18, R24,	3224W-1-103G	Bourns	4	10 kOhms	10% potentiometer	TRIMPOT 3224W
R25, R26	CRCW060310K0FKEAC	Vishay / Dale	6	5 10 kOhms	Thin Film Resistor 10 kOhms 1% Thin Film Resistor 110 kOhms	RES 0603_1608
R15	CRCW0805110KFKEAC	Vishay / Dale	1	110 kOhms	1%	RES 0805_2012
R16	CRCW080528K0FKEA	Vishay / Dale	1	28 kOhms	Thin Film Resistor 28 kOhms 1%	RES 0805_2012
R17	CRCW080520K0FKEAC	Vishay / Dale	1	20 kOhms	Thin Film Resistor 20 kOhms 1%	
R19, R20	CRCW120659R0FKEA	Vishay / Dale	2	2 590hms	Thin Film Resistor 59 Ohms 1% Thin Film Resistor 4.7 kOhms	RES 1206_3216
R21, R22, R23	CRCW06034K70FKEAC	Vishay / Dale	3	3 4.7 kOhms	1% MID-PPTI Push-Pull	RES 0603_1608
T1 U1C1, U1C2, U1C3,	760390014	Würth Elektronik	1	760390014	Transformer for TI SN650X HCNR200 High-Linearity Analog	WE7603900XX
U1C4	HCNR200-550E	Broadcom / Avago	4	HCNR200-550E	Optocoupler OPA388 Zero-Drift, Zero-	HCNR200
U2C1, U2C2, U2C3, U2C4	OPA388IDBVR	Texas Instruments	4	OPA388IDBVR	Crossover, Low Offset, Precision Rail-to-Rail I/O Opamp	TI SOT-23-5 DBV
U3	OPA4388IPWR	Texas Instruments	1	I OPA4388IPWR	OPA4388 Zero-Drift, Zero- Crossover, Low Offset, Precision Rail-to-Rail I/O Opamp	TI TSSOP-14 PW
U4	STM32G431KBT6	STMicroelectronics	1	STM32G431KBT6	STM32G431 ARM Cortex-M4 170MHz MCU	LQFP32ST
U5	LMR14010A	Texas Instruments	1	LMR14010A	4-V to 40-V, 1-A Step-Down Converter With High Efficiency Eco-mode	TI SOT-23-6 DDC
U6	SN6505B	Texas Instruments	1	SN6505B	Low-Noise 1-A Transformer Drivers for Isolated Power	TI SOT-23-6 DBV
U7	TPS76350DBVR	Texas Instruments	1	TPS76350DBVR	Supplies Low-Power, 150-mA, Low-	TI SOT-23-5 DBV
		Texas Instruments			Dropout Linear Regulator TLV702 300-mA, Low-IQ, Low-	TI SOT-23-5 DBV
U8, U9 U10	TLV70233DBVR ISO1042DWR	Texas Instruments Texas Instruments	1	2 TLV70233DBVR I ISO1042DWR	Dropout Regulator Isolated CAN FD Transceiver	TI-DW16_N
U11	TMP1075DGKR	Texas Instruments	1	I TMP1075DGKR	TMP1075 Temperature Sensor With I2C and SMBus Interface	TI VSSOP-8 DGK
Y1	ABM8W-24.0000MHZ-8-B1U-T3	ABRACON	1	24 MHz	24MHz 8pF -20C +70C 20ppm Crystal Oscillator	ABM8G