

Name	Description	Designator	Part Number	Price	Qty
885012207094	MLCC 22nF 10% 50V X7R CHIP CERAMIC (0805); WURTH	C1, C12	885012207094		2
UMK325AB7106KMHP	MLCC 10uF 10% 50V X7R CHIP CERAMIC (1210); YUDEN	C2, C3, C4, C5, C6, C7, C13, C14, C15, C16, C17, C18, C34, C35, C38, C48, C56, C65, C67, C73, C74, C75, C76, C77, C78, C79, C80, C81	UMK325AB7106KMHP		28
VJ0805Y104KXARW1BC	MLCC 100nF 10% 50V X7R CHIP CERAMIC (0805); VISHAY	C8, C9, C11, C19, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C39, C40, C41, C42, C43, C44, C45, C46, C47, C49, C50, C52, C55, C57, C58, C59, C60, C61, C63, C64, C66, C68, C69, C70, C71, C72, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C94, C95, C96, C97, C98, C99, C100	VJ0805Y104KXARW1BC		60
885012207082	MLCC 220pF 10% 50V X7R CHIP CERAMIC (0805); WURTH	C10, C20	885012207082		2
EMK325ABJ107MM-P	MLCC 100uF 20% 16V X5R CHIP CERAMIC (1210); YUDEN	C36, C37	EMK325ABJ107MM-P		2
CC0603KRX7R9BB105	MLCC 1uF 10% 50V X7R CHIP CERAMIC (0603); YAGEO	C51, C62	CC0603KRX7R9BB105		2
C0805C100K5GACTU	MLCC 10pF 10% 50V C0G CHIP CERAMIC (0805); KEMET	C53, C54	C0805C100K5GACTU		2
T495C476K016ATE300	TANTALUM 47uF 10% 16V ESR 0.3R CHIP TANTALUM (CASE-C); KEMET	C92, C93	T495C476K016ATE300		2
C0805C103K4RACAUTO	MLCC 0.01uF 10% 16V X7R CHIP CERAMIC (0805); AEC-Q200	C101	C0805C103K4RACAUTO		1
53398-0471	1.25mm Pitch PicoBlade Header, Surface Mount, Vertical, 4 Circuits; MOLEX	CN1	53398-0471	*	1
65100516121	USB Connectors WR-COM Type B SMT 5Pin Horztl Fml Mini; WURTH	CN2	65100516121	*	1
1050171001	USB, Micro B USB 2.0 Receptacle Connector 5 Position Surface Mount, Right Angle; MOLEX	CN3	1050171001	*	1
53398-0871	1.25mm Pitch PicoBlade Header, Surface Mount, Vertical, 8 Circuits; MOLEX	CN4	53398-0871	*	1
53398-0671	1.25mm Pitch PicoBlade Header, Surface Mount, Vertical, 6 Circuits; MOLEX	CN5	53398-0671	*	1
22-27-2061	CONNECTOR; 6 WAY KK 254 2.54mm PITCH (THP) GOLD; MOLEX	CN6	22-27-2061	*	1
MBRS340T3	DIODE MBRS340T3 30V 3A SCHOTTKY POWER RECTIFIER (SMC); ON SEMI	D1, D37, D38, D39, D40, D41, D42, D43	MBRS340T3	*	8
1N4148W	DIODE 1N4148W (SOD123); VISHAY	D2, D7, D11, D31, D32, D45, D46, D47	1N4148W-E3-08	*	8
MMSZ4684T1G	DIODE MMSZ4684T1G 3V3 500mW ZENER (SOD123); ON SEMI	D3, D8, D12	MMSZ4684T1G	*	3
APT2012SURCK	LED SMD-0805 Clear Hyper Red 230mcd 120°; KINGBRIGHT	D4, D5, D6, D9, D10, D13, D14, D15, D16, D17, D18, D20, D23, D25, D27, D29, D36	APT2012SURCK	*	17
BZX84C5V6	DIODE 5V6 350mW BZX84-C5V6 ZENER (SOT23); FAIRCHILD	D19, D21, D22, D24, D26, D28, D30, D33, D34	BZX84C5V6-7-F	*	9
NUP2105LT1G	ESD Protection Diode Dual Line CAN Bus Protector (SOT23) ON SEMI	D35	NUP2105LT1G	*	1
Do Not Fit	DIODE SCHOTTKY 30V 100MA SOD323.	D44	SD107WS-7-F	*	1
BZX84-B5V1,215	DIODE 5V1, 250 mW, BZX84-B4V7,215 (SOT23) Nexperia	D48	BZX84-B5V1,215	*	1
TDA02H0SB1	DIP Switch SPST 2 Position Surface Mount Slide (Standard) Actuator 25mA 24VDC C&K	DIP SW1	TDA02H0SB1	*	1
NFM21PC105B1C3	FILTER NFM21PC105B1C3 1uF 20% 16V 4A CAPACITOR TYPE (SMD) MURATA	F1, F2	NFM21PC105B1C3	*	2
3544-2 (0297003.WXNV)	FUSE CLIPS; Mini Auto Fuseholder KEYSTONE (FUSE; Mini Automotive 32V 3A LITTLEFUSE )	F4	3544-2 (0297003.WXNV)	*	1
V23076A1001C133	RELAY Automotive Power Relay K_V23076 TE	K1	V23076A1001C133	*	1
RTE24012	RELAY 41.52 Series TE	K2	RTE24012	*	1
V23105A5003A201	RELAY Signal Relays, 220VDC Contact Voltage Rating, 250VAC Contact Voltage Rating, 150mW Signal R	K3	V23105A5003A201	*	1
7440700047	INDUCTOR 4.7uH 2.2A 30% POWER (SMD) WURTH	L1, L2, L3, L4	7440700047	*	4
39291048	Mini-fit Jr 4Way Bottom-entry FPC-to-Board Conn (PN#5569-4RA) MOLEX	P1, P2	39291048	*	2
39291028	Mini-fit Jr 2Way Bottom-entry FPC-to-Board Conn (PN# 5569-2RA) MOLEX	P3, P4	39291028	*	2
39291108	Mini-fit Jr 10Way Bottom-entry FPC-to-Board Conn (PN# 5569-10RA) MOLEX	P5	39291108	*	1
39291208	Mini-fit Jr 20Way Bottom-entry FPC-to-Board Conn (PN# 5569-20RA) MOLEX	P6	39291208	*	1
39291088	Mini-fit Jr 8Way Bottom-entry FPC-to-Board Conn (PN# 5569-8RA) MOLEX	P7	39291088	*	1
OZCF0200FF2C	POLYSWITCH OZCF0200FF2C 2A HOLD 4A TRIP (SMD) BEL FUSE	PS1, PS2, PS3, PS4, PS5, PS6, PS7, PS8, PS9	OZCF0200FF2C	*	9
OZCF0300AF2C	POLYSWITCH OZCF0300AF2C 3A HOLD 5.2A TRIP (SMD) BEL FUSE	PS10	OZCF0300AF2C	*	1
OZCF0050FF2C	POLYSWITCH OZCF0050FF2C 0.5A HOLD 1A TRIP (SMD) BEL FUSE	PS11	OZCF0050FF2C	*	1
SI1443EDH-T1-GE3	MOSFET P-CH 30V 4A SOT-363	Q1, Q7, Q9	SI1443EDH-T1-GE3	*	3
TN1215-600B-TR	SCR-12A 600V DPACK STM	Q2, Q3, Q4	TN1215-600B-TR	*	3
BC817-25LT1G	TRANSISTOR BC817-25 45V 500mA NPN GENERAL PURPOSE (SOT23) NXP	Q5, Q6, Q8, Q10, Q13	BC817-25LT1G	*	5
NUD3124LT1G	MOSFET Gate Drivers 28V Industrial Relay Inductive Load	Q11	NUD3124LT1G	*	1
AC0805FR-0782RL	RES 82R 1% 1/8W 100ppm THICK FILM CHIP (0805); YAGEO	R1, R8	AC0805FR-0782RL		2
ASC0805-330RFT5	RES 330R 1% 1/8W 100ppm THICK FILM CHIP (0805); WELWYN	R2, R4, R6, R7, R28, R29, R59, R62, R67, R70, R81, R82, R113, R115	ASC0805-330RFT5		14
AC0805FR-0710KL	RES 10k 1% 1/8W 100ppm THICK FILM CHIP (0805); YAGEO	R3, R9, R12, R13, R17, R18, R25, R27, R34, R77, R80, R83, R91, R92, R94, R98	AC0805FR-0710KL		16
AC0805FR-0718RL	RES 18R 1% 1/8W 100ppm THICK FILM CHIP (0805); YAGEO	R5, R10	AC0805FR-0718RL		2
AC0805FR-071KL	RES 1k 1% 1/8W 100ppm THICK FILM CHIP (0805); YAGEO	R11, R22, R35, R63, R73, R89, R117, R120, R122	AC0805FR-071KL		9
CRGP2512F470R	RES 470R 1% 1W 100ppm THICK FILM CHIP (2512); TE	R14, R21, R31	CRGP2512F470R		3
AC0805FR-07220RL	RES 220R 1% 1/8W 100ppm THICK FILM CHIP (0805); YAGEO	R15, R23, R32	AC0805FR-07220RL		3
CR0805-FX-5100ELF	RES 510R 1% 1/8W 100ppm THICK FILM (0805); BOURNS	R16, R20, R24, R33, R40, R45, R49, R53, R57, R72, R119	CR0805-FX-5100ELF		11
CR0805-FX-1501ELF	RES 1k5 1% 1/8W 100ppm THICK FILM CHIP (0805); BOURNS	R19, R30, R37, R38, R41, R42, R43, R46, R47, R48, R50, R51, R52, R54, R58, R64, R66, R68, R85, R86, R87, R88, R104, R105, R106, R108, R109, R111, R116	CR0805-FX-1501ELF		29
AC0805FR-0715KL	RES 15k 1% 1/8W 100ppm THICK FILM CHIP (0805); YAGEO	R26, R36, R39, R44, R60, R65, R69, R74, R90, R110, R118, R123	AC0805FR-0715KL		12
RC0805FR-130RL	RES OR 1% 1/8W 100ppm THICK FILM CHIP (0805); YAGEO	R55, R56, R76, R78, R79, R84, R102, R103	RC0805FR-130RL		8
ERJ-H3EF2201V	RES 2k2 1% 1/8W 100ppm THICK FILM CHIP (0805); YAGEO	R61	AC0805FR-077K5L		1
CRCW1206120RFKEB	RES 120R 1% 1/4W 100ppm THICK FILM CHIP (1206); VISHAY	R71	CRCW1206120RFKEB		1
Do Not Fit	RES OR 1% 1/8W THICK FILM CHIP (0805); YAGEO - DO NOT FIT	R75, R107, R112, R114	RC0805FR-130RL		4
RC0805FR-1068RL	RES 68R 1% 1/8W 100ppm THICK FILM CHIP (0805); YAGEO	R93, R96, R97, R99	RC0805FR-1068RL		4

CR0805-FX-4701ELF	RES 4k7 1% 1/8W 100ppm THICK FILM CHIP (0805); BOURNS	R100	CR0805-FX-4701ELF		1
Do Not Fit	RES 18R 1% 1/8W 100ppm THICK FILM CHIP (0805); YAGEO - DO NOT FIT	R101	AC0805FR-0718RL	*	1
CRCW0805470RFKEAHP	RES 470R 1% 1/8W 100ppm THICK FILM CHIP (0805); VISHAY	R121	CRCW0805470RFKEAHP		1
KSC222JLFS	SWITCH KSC222JLFS TACTILE PUSHBUTTON N/O (SMD) C&K	SW1, SW2	KSC222JLFS	*	2
Do Not Fit	Testpin-1mm.	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17	PCB Pad	*	17
TS30013-M033QFNR	IC REG BUCK Positive Fixed 3.3V 1 Output 3A 16-VFQFN Exposed Pad SEMTECH	U1, U2	TS30013-M033QFNR	*	2
TMP100NA/3K	IC TMP100NA/3K DIGITAL I2C TEMP SENSOR (SOT23-6) MICROCHIP	U3	TMP100NA/3K	*	1
ISE0305A	POWERSUPPLY-ISE0305A 1Watt 3.3VDC to 5VDC XP POWER	U4	ISE0305A	*	1
ISO1050DUBR	SOP8 ISO1050 Isolated CAN Transceiver TI	U5	ISO1050DUBR	*	1
BGX13P22GA-V21	Bluetooth Xpress BGX13P Bluetooth® Module.	U6	BGX13P22GA-V21	*	1
INA188IDR	Precision, Zero-Drift, Rail-to-Rail Out, High-Voltage Instrumentation Amplifier TI	U7	INA188IDR	*	1
ISM330DLC	IC ISM330DLC 6-AXIS IMU (LGA14) STM	U8	ISM330DLC	*	1
LT1117IST-5#PBF	VOLT REG LT1117IST-5, 53V 800mA LOW DROPOUT (SOT223) LINEAR TECH	U10	LT1117IST-5#PBF	*	1
24LC256T-I/SN	IC EEPROM Memory IC 256Kb (32K x 8) I <sup>2</sup> C 400kHz 900ns 8-SOIC MICROCHIP	U11	24LC256T-I/SN	*	1
PIC32MZ0512EFF100-I/PT	MICROPROCESSOR PIC32MZ0512EFF100 (TQFP100) MICROCHIP	U12	PIC32MZ0512EFF100-I/PT	*	1
FT232RQ-REEL	USB Bridge, USB to UART USB 2.0 UART Interface 32-QFN (5x5) FTDI	U25	FT232RQ-REEL	*	1
Do Not Fit	CRYSTAL OSCILLATOR (XO) 100 kHz TO 250 MHz.	X1	510CAA24M0000AAGR	*	1
CX3225SB24000H0FLJCC	Crystal, 24MHz ±10ppm, 12pF 50 Ohms 4-SMD, No Lead, KYOCERA	X2	CX3225SB24000H0FLJCC	*	1
14M2275	Screw Self Tapper 2,9 x 6,5 Star				14
	Humiseal				
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