





Item#	Designator	Description	Comment	Quantity	Manufacturer	PartNumber	Footprint
1	D4	LED YELLOW DIFFUSED 0805 SN	lYellow	1	SRAM Opto Semiconductors In	LY R976-PS-36	0805 Polarize
2	J1	Receptacle Assembly, 15 Position,	Vehicle Interface	1	Amphenol FCI	D15S33E4GV00LF	DSUB1.385-2
3	TVS1	VARISTOR CAP FEEDTHRU 18V		1	AVX	V2F118A400Y2EDP	Transfeed
4	TVS2, TVS3	VARISTOR CAP FEEDTHRU 14V (	Varistor 24V	2	AVX	V2F114C300Y1FDP	Transfeed
5	USB1	USB - mini B USB 2.0 Receptacle		1	Hirose	UX60SC-MB-5S8	USB Mini UX
6		IC RS485 TXRX 3/5V 8-SOIC	SN75HVD08DR	1	TexasInstruments	SN75HVD08DR	SOIC-SN8 N
<u>×</u>		TVS DIODE 20VWM 36.8VC SMA		1	Micro Commercial Co	SMA6J24CA-TP	SMA
8		Light Pipe Single Clear Rigid Rou		4	Bivar Inc.	SLP3-150-250-R	PCBCompone
9	D2	Red 633nm LED Indication - Discre		1	SRAM Opto Semiconductors In		0805 Polarize
10		Tactile Switch SPST-NO Top Actua		 1	C & K Components		Switch PTS83
11		PTC RESTTBLE 0.75A33V CHIP 1		1	Bel Fuse Inc.	0ZCG0075BF2B	1812
12	SW20, SW21	Pushbutton Switch DPST-NO Stan		2	E-Switch	PB400OAQR1BLK	PB400
13	<del></del>	5V DC/DC Converter (7805 replace			Murata Power Solutions Inc.	OKI-78SR-5/1.5-W36HC	OKI-78SR
13 14		IC INDCT LOAD DRVR AUTO SOT		1		NUD3124LT1G	SOT23 N
				<del></del>	ON Semiconductor		
15	U2	Single Wire CAN Transceiver, 5 to		1	On Semiconductor	NCV7356D1R2G	ONSC-SOIC-
16	U13	Linear Voltage Regulator IC Positi	******************************	1	On Semiconductor	NCP1117LPST33T3G	SOT-223
17	U12	Optoisolator Transistor Output 250		1	Fairchild/ON Semiconductor	MOCD207R2M	SOIC-8
18	U16	32 Bit Microcontroller, Kinetis L Se		1	NXP USA Inc.	MKL02Z32VFG4	*QFN50P300
19		Kinetis K66: 180MHz Cortex-M4F		1	NXP USA Inc.	MK66FX1M0VMD18	*BGA144C10
20		Microchip CAN FD Transceiver with		3	Microchip Technology, Microchip	MCP2558FDT-H/MNY	TDFN
21	>	CANbusController CAN 2.0 SPI Int		1	Microchip Technology	MCP2517FDT-H/JHA	SOP14
22	U7	LIN J2602 Transceiver, 8-Pin SOI		1	Microchip Technology	MCP2003A-E/SN	SOIC-SN8_N
23	JTAG/SWD	Connector Header Surface Mount	JTAG/SWD	1	CNC Tech	3221-10-0300-00	JTAG 10-pin
24	, J2, J3, P3, SPI1, UA	Header, 4-Pin, [NoValue], Header, (	Header 4, Solder	6			HDR1X4, Sol
25	D1	Green 570nm LED Indication - Dis		1	SRAM Opto Semiconductors In	LG R971-KN-1	0805 Polarize
26	K1	General Purpose Relay DPDT (2 F	EE2-5SNU	1	KEMET	EE2-5SNU	RELAY - EE2
27	P2	CONN HEADER PH SIDE 3POS 2N	DNP GP-20U7 JST	1	JST	S3B-PH-SM4-TB(LF)(SN)	MHDR1X3
28	D7, D8, D9, D10, D11		Diode	5	bshiba Semiconductor and Stora	CCS15S30L3FCT-ND	CST2C
29	Batt1	Lithium Battery Non-Rechargeable	CR1225	1	Linx	BAT-HLD-012-SMT	Battery Clip -
30		Blue 470nm LED Indication - Discr		1	Broadcom Limited	HSMN-C170	0805 Polarize
31	U11	SMARTCONNECT ATWINC1500B	ATML-ATWINC1500	1	Microchip Technologies	ATWINC1510-MR210PB1140	ATML-ATWIN
32	U15	Authentication Chip IC Networking		1	Microchip Technology	ATECC608A-SSHDA-T	SOIC-8
33	D3, D5	Diode Schottky 1000V 1A Surface	ACURA107-HF	2	Comchip Technology	ACURA107-HF	SMA with Aar
34	SD1	MICRO SD NORMAL ULTRALOW	503182-1852	1	Molex	5031821852	*MOLEX 503
35		470µF 16V Aluminum Electrolytic	}	2	Panasonic Electronic Componen	EEE-HC1C471P	Elec. Cap - G
		330 Ohms±1% 0.1W, 1/10W Chip		5	Rohm Semiconductor	KTR03EZPF3300	0603
37		Aluminum Electrolytic Capacitors		1	Panasonic Electronic Componen		Elec. Cap - G
38		100 kOhms±1% 0.1W, 1/10W Chip		13	Rohm Semiconductor	KTR03EZPF1003	0603
39		IC SCHMIT-TRIGG INV GATE SOT		1	DiodesIncorporated	74AHCT1G14SE-7	SOT-353
40		±1% 0.1W, 1/10W Chip Resistor 06		4	Rohm Semi conductor	KTR03EZPF47R0	0603
41	kaanaanaa <del>kaanaakannaan</del> aéeenaanaa	40MHz ±10ppm Crystal 10pF 40 O		1	ECS Inc.		XTAL 4 pad
41 42	X1	Canned Oscillator	32.768 KHz	1	ECS Inc.	ECX327-CDX-1293	XTAL 4 pad XTAL 2-pad S
43	C12	22µF ±20% 25V Ceramic Capacito		1	<del> </del>	GRT31CR61E226ME01L	1206
43 44		<del></del>			Murata Electronics North America		
		16pF ±5% 50V Ceramic Capacitor		2	Yageo	CC0603JRNPO9BN160	0603
45		16MHz ±30ppm Crystal 18pF 80 O		11	ECS Inc.	XC2866CT-ND	XTAL 4 pad
46	18, K20, K24, K28, R	10 kOhms±1% 0.1W, 1/10W Chip F	TUK	5	Rohm Semiconductor	KTR03EZPF1002	0603

47	, R4, R7, R10, R21,	R4.7 kOhms±1% 0.1W, 1/10W Chip	4.7k	6	Rohm Semiconductor	KTR03EZPF4701	0603
48	C10, C16	2.2µF ±10% 6.3V Ceramic Capaci	2.2uF	2	Taiyo Yuden	JMK107BJ225KAHT	0603
49	L1, L5, L6	Ferrite Beads Multi-Layer Power 1	ł1k	3	Murata	BLM18KG102SZ1D	0603
50	C11, C13, C17, C18,	CAP CER 0.1UF 50V X7R 0603	0.1uF	17	KEMET	C0603C104K5RACAUTO	0603