



Board Assembly Bill Of Materials

Board ID: VIC3_EVB_REVBB
BOM Issue: 2
Dated: 2020/03/18

NOTES:
Parts to be bought by assembly subcontractor except those in sections marked as free-issue or those in the Do Not Fit section.

Part No	Part Type	Part Qty	Refs	Value	Description	Package	Manufacture 1		Manufacture 2		Manufacture 3		Distributor		Fitted (Y/N)	Supplied by	RoHS	Comments
							Name	Part Number	Name	Part Number	Name	Part Number	Name	Order Code				
SBS-CAS0696	CAS	13	C300,C301,C302,C323,C329,C331,C410,C415,C416,C417,C418,C419,C420	100nF	AEC-Q200 Compliant Chip Multilayer Ceramic Capacitors for Infotainment, 100nF, 10%, 50V, X7R 100nF, 50, X7R(EIA), 10;	402	Murata	GRT155R71H104KE01							Yes	SubCo	Unkn wn	
SBS-CAS0350	CAS	1	C303	2n2	Surface mount, general purpose multilayer ceramic chip capacitor 2n2; 10V; U2J, +/-5%;	402	Murata	GRM1557U1A222J							Yes	SubCo	Yes	
SBS-CAS0534	CAS	3	C304,C321,C324	120pF	Automotive Grade Surface mount 0402 capacitor ceramic 120pF, 5% 50V COG 120pF, 50, COG, S;	402	Murata	GCM1555C1H121JA16	TDK	CGA2B2C0G1H121J050BA					Yes	SubCo	Yes	
SBS-CAS0686	CAS	1	C326	2.2uF	Surface mount capacitor, 2.2uF +/-10%, 10V, B(JIS) 2.2uF, 10V, 10%;	402		GRM155B31A229KE95							Yes	SubCo	Unkn wn	
SBS-CAS0646	CAS	3	C327,C400,C411	1uF	Automotive Grade Surface mount 0402 capacitor ceramic 1uF, 20% 16V X6S 1uF, 16, X6S, 20;	402	Murata	GRT155C81C105ME13							Yes	SubCo	Yes	
SBS-CAS0519	CAS	5	C328,C330,C401,C412,C428	10nF	Automotive Grade Surface mount 0402 capacitor ceramic 10nF, 10% 25V X7R 10nF, 25, X7R, 10;	402	Murata	GCM155R71E103KA37	TDK	CGA2B2X7R1E103K050BA					Yes	SubCo	Yes	
SBS-CAS0673	CAS	4	C408,C409,C413,C414	4u7	Automotive Grade Surface mount 0603 capacitor ceramic 4.7uF, +/-10%, 25V X6S 4.7, 25, 10;	603	Murata	GRT188C81E475KE13							Yes	SubCo	Unkn wn	
SBS-CAS0613	CAS	1	C407	1n	Surface mount Multilayer Ceramic Chip Capacitor 1n; 50V, COG, +/-5%;	402	TDK	C1005C0G1H102J050BA							Yes	SubCo	Unkn wn	
SBS-CAS0369	CAS	2	C422,C423	5p6	Surface mount, general purpose multilayer ceramic chip capacitor 5p6; 50V, COG, +/-3, 1pF;	402	muRata	GRM1555C1H5R6B							Yes	SubCo	Yes	
PN-C0603X7R100N	CAS	1	C404	100n	Surface mount, general purpose multilayer ceramic chip capacitor 100n; 50V, X7R, +/-10%;	603	TDK	C1608X7R1H104KT	Murata	GRM188R71H104KA93					Yes	SubCo	Yes	
SBS-CAS0374	CAS	1	C402	10n	Surface mount, general purpose multilayer ceramic chip capacitor 10n; 25V, X7R, +/-10%;	603	Murata	GRM188R71E103K							Yes	SubCo	Yes	
SBS-CAS0424	CAS	2	C403,C504	4u7	Surface mount, general purpose multilayer ceramic chip capacitor 4u7; 16V, X7R, +/-10%;	805	Murata	GRM21BR71C475KA73L	TDK	C2012X7R1C475K125AB					Yes	SubCo	Yes	
SBS-CAS0677	CAS	4	C505,C506,C508,C509	10uF	Chip Multilayer Ceramic Capacitors for General Purpose 10uF +/-20% 0603 XGR 16Vdc, 10uF, 16, 20;	603	Murata	GRM188R61C106MA73							Yes	SubCo	Unkn wn	
SBS-CAS0660	CAS	1	C500	33uF	Electrolytic Surface mount capacitor 33uF; 100, 20;		Panasonic	EEEFK2A330P							Yes	SubCo	Unkn wn	
SBS-CAS0243-1	CAS	1	C501	33uF	Surface mount electrolytic capacitor, Low ESR, 33uF, 35V, 20%;	Size D (6.3x5.8mm)	Panasonic	EEEFK1V330P	Panasonic	EEVFK1V330P					Yes	SubCo	Yes	
SBS-CAS0263	CAS	1	C507	100n	Surface mount, general purpose multilayer ceramic chip capacitor 100n; 16V, X7R, +/-10%;	402	Murata	GRM155R71C104KA88D							Yes	SubCo	Yes	
PN-C0603C0GJ68P	CAS	1	C503	68p	Surface mount, general purpose multilayer ceramic chip capacitor 68p; 50V, COG, +/-5%;	603	TDK	C1608C0G1H680JT							Yes	SubCo	Yes	
PN-C0603X7RM10N	CAS	1	C502	10n	Surface mount, general purpose multilayer ceramic chip capacitor 10n; 50V, X7R, +/-20%;	603	TDK	C1608X7R1H103MT	Murata	GRM188R71H103KA01					Yes	SubCo	Yes	
SBS-COD0910	COD	1	CN302	50ohms	50 Ohm SMA Jack, Edge Mount, 1.6mm PCB thickness, 50ohms	SMA	Samtec	SMA-J-P-H-ST-EM2	Samtec	SMA-J-P-H-ST-EM1					Yes	SubCo	Unkn wn	
SBS-COD0758	COD	1	CN300		SMT Ultra-Miniature Coaxial Connectors		Hirose	U.FL-R-SMT(10)							Yes	SubCo	Unkn wn	
SBS-COD0737	COD	7	J300,J304,J308,J401,J403,J501,J502	HEADER	Header connector 1x3 gold finish 2.54mm through hole HEADER;	HEADER_1X3	SAMTEC	TSW-103-07-G-S							Yes	SubCo	Yes	
SBS-TESTPNT-SM800	COD	5	TP300,TP301,TP400,TP500,TP501	PCB test point DNF	PCB testpoint. No physical component required. PCB test point DNF;										Yes	SubCo	Yes	
SBS-COD0995	COD	1	CN403	TST-107-04-F-D-RA	TST series, 14 way right angled terminal strip through hole shrouded pin header connector. Double row, 2x7 pins, pitch 2.54mm. TST-107-04-F-D-RA;	IDC_2x7_RA	Samtec	TST-107-04-F-D-RA							Yes	SubCo	Yes	
SBS-COD0742	COD	1	J405		microSD™ Card Connector - Push-Push (ejection mechanism), Top board mounting (Standard)		Hirose	DM3AT-SF-PEJM5							Yes	SubCo	Unkn wn	
SBS-COD0893	COD	1	J400		Micro-USB B Receptacle, Bottom Mount, SMT, with Solder Tabs, Lead-Free		FCI	10103594-0001LF							Yes	SubCo	Unkn wn	

SBS-TESTPNT-SM350	COD	32	TP402,TP403,TP404,TP406,TP407,TP408,TP409,TP410,TP411,TP413,TP414,TP415,TP416,TP417,TP418,TP419,TP420,TP422,TP424,TP425,TP426,TP427,TP428,TP429,TP430,TP431,TP432,TP433,TP434,TP435,TP436,TP437	PCB test point DNF	PCB testpoint. No physical component required. PCB test point DNF;													Yes	SubCo	Yes	
SBS-COD0482	COD	3	CN500,CN501,CN502	header_1x1	TSW-101-07-G-S; Samtec TSW series. Through Hole Male terminal header. Single row, 1 pin. Dim: Tail 2.54, contact 5.84, total 10.92. header_1x1	HEADER_1X1	SAMTEC	TSW-101-07-G-S										Yes	SubCo	Yes	
SBS-COD0728	COD	8	P302,P305,P306,P308,P400,P401,P501,P502	SNT-100-BK-G	Shunt Samtec 2pins pitch 2.54mm - Black coloured SNT-100-BK-G.		SAMTEC	SNT-100-BK-G										Yes	SubCo	Yes	
SBS-DIS0141	DIS	2	D300,D301	MBRM130L	Surface Mount Schottky Power Rectifier 1.0 AMPERES, 30 VOLTS MBRM130L; VR:10V - VF:0.3V; RFP:1A;	CASE 457-04	On semi	MBRM130L1G										Yes	SubCo	Unknwn	
SBS-DIS0142	DIS	1	D400	ESDA17-5	Monolithic array designed to protect up to 5 lines against ESD transients. ESDA17-5; 17;	SOT23-6L	STMicroelectronics	ESDA17-5SC6										Yes	SubCo	Unknwn	
SBS-DIS0099	DIS	10	D401,D402,D403,D404,D405,D406,D407,D408,D506,D505	ESDAXLC6-1BT2	Single Line bidirectional ESD Protection for High speed Interface ESDAXLC6-1BT2;	SOD882T	STMicroelectronics	ESDAXLC6-1BT2										Yes	SubCo	Unknwn	
SBS-DIS0100	DIS	2	D502,D503		Surface mount SCHOTTKY RECTIFIERS 0.33; 0.5;	SOD 123	STMicroelectronics	STPS0530Z										Yes	SubCo	Unknwn	
SBS-DIS0112	DIS	1	D501	STPS3L40	Power schottky rectifier diode STPS3L40; 40V; 3A;	SMC	STMicroelectronics	STPS3L40SY										Yes	SubCo	Yes	
SBS-DIS0051	DIS	1	D500	STPS2H100U	Power schottky diode. STPS2H100U; 100V; 2A;	SMB	STMicroelectronics	STPS2H100U										Yes	SubCo	Yes	
SBS-DIS0102	DIS	1	D504	BZT52H-B5V1	Single SMT Zener diodes 5.1V BZT52H-B5V1; 5.1V;	SOD123F	NXP	BZT52H-B5V1										Yes	SubCo	Yes	
SBS-HDW0500	HDW	1	HW500		Board label Zebra 27mm x 14mm													Yes	SubCo	Yes	
SBS-ICS1637	ICS	2	U300,U301	SN74LVC1G17DRLR	SINGLE SCHMITT TRIGGER BUFFER in SOT-553 SN74LVC1G17DRLR;	SOT-553	Texas Instruments	SN74LVC1G17DRLR										Yes	SubCo	Yes	
SBS-ICS1981	ICS	1	U302		TESE0III VIC3DA module 3.3V;		STMicroelectronics	VIC3DA										Yes	SubCo	Unknwn	
SBS-ICS1941	ICS	1	U303	BGA725L6	Silicon Germanium Low Noise Amplifier for GNSS in ultra small package with 0.77mm ² footprint NF<0.65 dB BGA725L6; 1.5 V to 3.6 V; 0.0036;		Infineon	BGA725L6										Yes	SubCo	Unknwn	
SBS-ICS2051	ICS	1	U304	LT3050	100mA, Linear Regulator with Precision Current Limit and Diagnostic Outputs LT3050; 1.6V - 45V; 100mA;	12-Lead 3x2mm DFN	Analog Devices / Linear Technology	LT3050EDDB#PBF										Yes	SubCo	Unknwn	
SBS-ICS1865	ICS	1	Z300		Automotive SAW RF filter for GPS-BEIDOU+GLONASS	QCS5P	TDK	B39162B4348P810										Yes	SubCo	Yes	
SBS-ICS2043	ICS	1	U401	STM32L496	Ultra-low-power Arm® Cortex-M4 32-bit MCU+FPU, 100DMIPS, 512kBytes Flash, 320KB SRAM, USB OTG FS, audio, I2C/SPI, STM32L496;	LQFP64 (10x10mm)	STMicroelectronics	STM32L496RET6										Yes	SubCo	Unknwn	
SBS-ICS1563	ICS	1	U403	STG3682	Low voltage high bandwidth dual SPDT switch STG3682;	QFN10	STMicroelectronics	STG3682										Yes	SubCo	Yes	
SBS-ICS1599-1	ICS	1	U400		CP2105 SINGLE-CHIP USB TO DUAL UART BRIDGE	QFN24	Silicon labs	CP2105-F01-GM										Yes	SubCo	Yes	
SBS-ICS1525	ICS	1	Z401		6-line iPAD™, EMI filter and ESD protection	Micro QFN 16L	STMicroelectronics	EMIF06-MSD02N16										Yes	SubCo	Unknwn	
SBS-ICS1527	ICS	1	Z400		Common mode filter with ESD protection for USB2.0 interface	µQFN-8L	STMicroelectronics	ECMF02-4CMX8										Yes	SubCo	Unknwn	
SBS-ICS2038	ICS	2	U501,U504	ST1PS01EJR	Nano-Quiescent™ miniaturized synchronous step down converters ST1PS01EJR; 1.8V, 2.7V, 3.0V, 3.3V + 5400mA Input Quiescent Current at VIN=3.6V (No Load) + 95% typical efficiency at 1mA load (VIN=3.6V, VOUT=3V) + 90% typical efficiency at 10µA ST1PS01EJR; 1.8V - 5.5V; 0.4;	Flip-Chip 8 (1.14x1.44 mm)	STMicroelectronics	ST1PS01EJR										Yes	SubCo	Unknwn	
SBS-ICS1841	ICS	1	U500		Up to 1.5 A step-down switching regulator for automotive 4V to 36V; 1.5;		STMicroelectronics	A5973ADTR										Yes	SubCo	Unknwn	
SBS-IND0511	IND	1	L300	27nH	Surface mount inductor Inductance: 27nH ±5%, Rated current 350mA, Max. of DC resistance 0.46Ω, Qmin 8, Self resonance frequency (min.) 1700MHz, Operating temperature range -55 to 125°C 27nH; 5; 0.35;	402	Murata	LQG15HS27NJ02										Yes	SubCo	Yes	
SBS-IND0512	IND	1	L301	7.5nH	Surface mount wire wound RF inductor, 7.5nH±5%, 1700mA, 0.05ohms 7.5nH; 5; 1.7;		Murata	LQW15AN7N5J80										Yes	SubCo	Unknwn	
SBS-IND0499	IND	1	L400	40 ohm @ 100MHz	Chip Ferrite Bead Inductor; 40 ohm @ 100MHz; 40 ohm @ 100MHz;	805	LAIRD	MI0805K400R-10										Yes	SubCo	Yes	
SBS-IND0530	IND	2	L501,L502	2.2uH	Surface mount Multilayer type Inductor for Power Line 2.2uH 2.2uH; 20%; 1.3A;	805	Murata	LQM21PN2R2MGH										Yes	SubCo	Unknwn	
SBS-IND0502	IND	1	L500	47 uH	Surface mount inductor 47uH rated current 0.82A 47 uH; 38; 0.82;		Würth	744053470										Yes	SubCo	Yes	

SBS-LED0058	LED	2	LD301,LD302		LED CBI series single LED indicator lamp, YELLOW, 3mm diameter. Right angled LED center 5.08mm above PCB.	LED_RA_3MM_CBI	Dialight	551-0307									Yes	SubCo	Yes		
SBS-LED0046	LED	1	LD300		LED CBI series single LED indicator lamp, GREEN, 3mm diameter. Right angled LED center 5.08mm above PCB.	LED_RA_3MM_CBI	Dialight	551-0207F									Yes	SubCo	Yes		
SBS-LED0057	LED	1	LD500		LED CBI series single LED indicator lamp, RED, 3mm diameter. Right angled LED center 5.08mm above PCB.	LED_RA_3MM_CBI	Dialight	551-0407F									Yes	SubCo	Yes		
SBS-PIN0015-4	PIN	6	J305,J306,J309,J310,J307,J500	HEADER_1X2 2.54mm	2 way pin post PTH header connector. Shroudless, arranged as 1 by 2, pitch 2.54mm. HEADER_1X2 2.54mm.	HEADER_1X2	Samtec	MTSW-102-07-L-S-240									Yes	SubCo	Yes		
SBS-RES0676	RES	1	R304	10K	Automotive grade Surface mount chip resistor 10KOhm 1% 0402 10K; 1%; 0.0625;	402	Vishay	CRCW040210K0F	Yageo	AC0402FR-0710KL							Yes	SubCo	Yes		
SBS-RES0684	RES	5	R303,R305,R311,R317,R324	22k	Automotive grade Surface mount chip resistor 22k 5% 0402 22k; 5; 0.0625;	402	Vishay	CRCW040222K0J	Yageo	AC0402JR-0722KL							Yes	SubCo	Yes		
SBS-RES0570	RES	58	R308,R314,R328,R329,R331,R332,R336,R345,R348,R349,R313,R400,R409,R412,R420,R421,R422,R423,R424,R425,R426,R427,R428,R429,R430,R433,R434,R437,R438,R439,R440,R441,R442,R445,R447,R450,R453,R454,R457,R458,R459,R405,R413,R415,R408,R406,R401,R504,R506,R510,R511,R512,R519,R520,R513,R516,R515,R514	0R	Automotive Grade Surface mount chip resistor 0402 package 0Ohm 0R; 1.5;	402	Vishay	CRCW04020000Z	Yageo	AC0402JR-070RL								Yes	SubCo	Yes	
SBS-RES0590	RES	2	R310,R404	4K7	Automotive grade Surface mount chip resistor 4K7Ohm 5% 0402 4K7; 5; 0.0625;	402	Vishay	CRCW04024K70J	Yageo	AC0402JR-074K7L							Yes	SubCo	Yes		
PN-R0402FK	RES	4	R300,R302,R315,R320	1K	Surface mount chip resistor 1K 1%; 0.0625W;	402	Rohm	MCR01MZPF1001	yageo	RC0402FR-071KL							Yes	SubCo	Yes		
SBS-RES0587	RES	4	R307,R334,R432,R448	100k	Automotive grade Surface mount chip resistor 100KOhm 5% 0402 100k; 5; 0.0625;	402	Vishay	CRCW0402100KJ	Yageo	AC0402JR-07100KL							Yes	SubCo	Yes		
SBS-RES0572	RES	3	R301,R321,R325	10K	Automotive grade Surface mount chip resistor 10KOhm 5% 0402 10K; 5; 0.0625;	402	Vishay	CRCW040210K0J	Yageo	AC0402JR-0710KL							Yes	SubCo	Yes		
SBS-RES0659	RES	1	R335	12k	Automotive grade Surface mount chip resistor 12k 1% 0402 12k; 1;	402	Vishay	CRCW040212K0F	Yageo	AC0402FR-0712KL							Yes	SubCo	Yes		
SBS-RES0596	RES	1	R339	47K	Automotive grade Surface mount chip resistor 47KOhm 5% 0402 47K; 5; 0.0625;	402	Vishay	CRCW040247K0J	Yageo	AC0402JR-0747KL							Yes	SubCo	Yes		
PN-R0402F110K	RES	1	R340	110K	Surface mount chip resistor 110K; 1%; 0.0625W;	402	Rohm	MCR01MZPF1103	Yageo	RC0402FR-07110KL							Yes	SubCo	Yes		
SBS-RES0591	RES	2	R341,R502	2K2	Automotive grade Surface mount chip resistor 2K2Ohm 5% 0402 2K2; 5; 0.0625;	402	Vishay	CRCW04022K20J	Yageo	AC0402JR-072K2L							Yes	SubCo	Yes		
SBS-RES0670	RES	1	R342	1k2	Automotive grade Surface mount chip resistor 1k2 1% 0402 1k2; 1; 0.0625W;	402	Vishay	CRCW04021K20F	Yageo	AC0402FR-071K2L							Yes	SubCo	Yes		
SBS-RES0764	RES	1	R323	0.1	Surface mount chip resistor; 0.1ohms, +/-0.5%, 0805 0.1; 0.5; 0.25;	805	Vishay	WSL0805R1000DEA18									Yes	SubCo	Unkno wn		
SBS-RES0765	RES	1	R322	100R	Res Thin Film 0402 100 Ohm 0.5% 0.063W(U16W) ±25ppm°C AEC-Q200 100R; 0.5; 0.063;		Panasonic	ERA-2AED101X	Susumu	RG1005P-101-D							Yes	SubCo	Unkno wn		
SBS-RES0559	RES	8	R403,R500,R507,R509,R517,R518,R521,R522	0R	Automotive Grade Surface mount chip resistor 0603 package 0Ohm 0R; 0.1;	603	Vishay	CRCW06030000ZS	Yageo	AC0603JR-070RL							Yes	SubCo	Yes		
SBS-RES0685	RES	1	R508	220R	Automotive grade Surface mount chip resistor 220Ohm 1% 0402 220R; 1; 0.0625;	402	Vishay	CRCW0402220RF	Yageo	AC0402FR-07220RL							Yes	SubCo	Yes		
PN-R0603F4K7	RES	1	R503	4K7	Surface mount chip resistor 4K7; 1%; 0.1W;	603	Rohm	MCR03EZPF472	Yageo	RC0603FR-074K7L							Yes	SubCo	Yes		
PN-R0603F15K	RES	1	R501	15K	Surface mount chip resistor 15K; 1%; 0.1W;	603	Rohm	MCR03EZPF153	Yageo	AC0603FR-0715KL							Yes	SubCo	Yes		
PN-R0603F9K1	RES	1	R505	9K1	Surface mount chip resistor 9K1; 1%; 0.1W;	603	Rohm	MCR03EZPF912	Yageo	AC0603FR-0715KL							Yes	SubCo	Yes		
SBS-SWD0054	SWD	1	SW501	OFF[ON]	Micro miniature push button switch 4.24 length OFF[ON];		TE connectivity	FSMRA6JH									Yes	SubCo	Unkno wn		
SBS-SWD0053	SWD	1	SW500		Right angle Push button with latchdown		NKK	BB16AH-FA									Yes	SubCo	Unkno wn		
SBS-TRS0095	TRS	3	Q300,Q302,Q303		General Purpose Transistor; NPN Silicon	SOT-416	NXP	BC847BT,115	On Semi	BC847BT11G							Yes	SubCo	Yes		
SBS-XTL1013	XTL	1	Y400	NX3215SA 32.768kHz	Automotive grade surface mount crystal 32kHz +/-20ppm. Load capacitance: 12.5pF, NX3215SA 32.768kHz; 20ppm; 32kHz;	3.2x1.5	NDK	NX3215SA 32.768kHz EXS00A-MU00003									Yes	SubCo	Yes		

PCB Do Not Fit parts list

Part No	Part Type	Part Qty	Refs	Value	Description	Package	Manufacture 1	Manufacture 2	Manufacture 3	Distributor	Fitted (Y/N)	Supplied by	RoHS	Comments
SBS-CA90534	CAS	17	C306,C307,C308,C309,C310,C311,C312,C313,C314,C315,C316,C317,C318,C319,C322,C325,C429	120pF	Automotive Grade Surface mount 0402 capacitor ceramic 120pF 5% 50V COG 120pF; 50; COG; 5;	402	Murata	GCM1555C1H121JA16	TDK	CGA2B2COG1H121J050BA		No	N/A	Yes
SBS-COD0482	COD	1	CN301	header_1x1	TSW-101-07-G-S: Samtec TSW series. Through Hole Male terminal header. Single row, 1 pin. Dim: Tail 2.54, contact 5.84, total 10.92. header 1x1	HEADER_1X1	SAMTEC	TSW-101-07-G-S			No	N/A	Yes	

SBS-COD0728	COD	3	P304,P307,P500	SNT-100-BK-G	Shunt Samtec 2pins pitch 2.54mm - Black coloured SNT-100-BK-G;		SAMTEC	SNT-100-BK-G							No	N/A	Yes	
PN-R0402F1K5	RES	2	R318,R319	1K5	Surface mount chip resistor 1K5, 1%; 0.0625W;	402	Rohm	MCR01MZPF1501	Yageo	RC0402FR-071K5L					No	N/A	Yes	
SBS-RES0570	RES	26	R306,R308,R316,R326,R327,R330,R333,R337,R338,R343,R344,R346,R347,R402,R410,R407,R414,R416,R417,R435,R436,R444,R451,R452,R455,R456	0R	Automotive Grade Surface mount chip resistor 0402 package 001m 0R; 1.5;	402	Vishay	CRCW04020000Z	Yageo	AC0402JR-070RL					No	N/A	Yes	
SBS-CAS0696	CAS	1	C421	100nF	IEC-Q200 Compliant Chip Multilayer Ceramic Capacitors for Infotainment, 100nF, 10%, 50V, X7R 100nF; 50; X7R(E)A; +10;	402	Murata	GRT155R71H104KE01							No	N/A	Unkn wn	
SBS-CAS0596	CAS	2	C424,C425	16p	Surface mount, general purpose multilayer ceramic chip capacitor 16p; 50V; C0G; +/-2%;	402	Murata	GJM1555C1H160GB01D							No	N/A	Yes	
SBS-PIN0108	PIN	1	CN404	PCB DESIGN	6 way holes arranged 1x8 at pitch 2.54mm. PCB DESIGN;	HEADER_1X6									No	N/A	Yes	
SBS-RES0587	RES	2	R431,R449	100k	Automotive grade Surface mount chip resistor 100kOhm 5% 0402 100k; 5; 0.0625;	402	Vishay	CRCW0402100KJ	Yageo	AC0402JR-07100KL					No	N/A	Yes	
SBS-RES0572	RES	1	R443	10K	Automotive grade Surface mount chip resistor 10KOhm 5% 0402 10K; 5; 0.0625;	402	Vishay	CRCW040210KJ	Yageo	AC0402JR-0710KL					No	N/A	Yes	
PN-R0402F1K	RES	1	R446	1K	Surface mount chip resistor 1K; 1%; 0.0625W;	402	Rohm	MCR01MZPF1001	yageo	RC0402FR-071KL					No	N/A	Yes	
SBS-XTL0174	XTL	1	X400	NX3225GD-8MHz	Surface mount Crystal. Load capacitance; 8pF. NX3225GD 8MHz; +/-50ppm; 8MHz;	3.2x2.5x1.0	NDK	NX3225GD-8MHZ-STD-CRA-3							No	N/A	Yes	
SBS-RES0559	RES	2	R523,R524	0R	Automotive Grade Surface mount chip resistor 0603 package 001m 0R; 0.1;	603	Vishay	CRCW06030000ZS	Yageo	AC0603JR-070RL					No	N/A	Yes	