

[illegible]

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
2	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120	122	124	126	128	130	132	134	136	138	140	142	144	146	148	150	152	154	156	158	160	162	164	166	168	170	172	174	176	178	180	182	184	186	188	190	192	194	196	198	200
3	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72	75	78	81	84	87	90	93	96	99	102	105	108	111	114	117	120	123	126	129	132	135	138	141	144	147	150	153	156	159	162	165	168	171	174	177	180	183	186	189	192	195	198	201	204	207	210	213	216	219	222	225	228	231	234	237	240	243	246	249	252	255	258	261	264	267	270	273	276	279	282	285	288	291	294	297	300
4	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	84	88	92	96	100	104	108	112	116	120	124	128	132	136	140	144	148	152	156	160	164	168	172	176	180	184	188	192	196	200	204	208	212	216	220	224	228	232	236	240	244	248	252	256	260	264	268	272	276	280	284	288	292	296	300	304	308	312	316	320	324	328	332	336	340	344	348	352	356	360	364	368	372	376	380	384	388	392	396	400
5	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230																																																						

[illegible]

YBPE[AV] Revised: Saturday, February 01, 2020

[02] KEY Revision: 0.1

Bill Of Mat Page1

Item	Quantity	Reference Part	Part_Number
1	3	C1	100nF/10V LSCA104N2X70
		C3	100nF/10V LSCA104N2X70
		C13	100nF/10V LSCA104N2X70
2	1	C2	10uF/6.3V, LSCC106N1X70
3	10	C4	100nF/10V LSCA104N2X70
		C5	100nF/10V LSCA104N2X70
		C6	100nF/10V LSCA104N2X70
		C7	100nF/10V LSCA104N2X70
		C8	100nF/10V LSCA104N2X70
		C9	100nF/10V LSCA104N2X70
		C10	100nF/10V LSCA104N2X70
		C11	100nF/10V LSCA104N2X70
		C12	100nF/10V LSCA104N2X70
4	2	C14	330pF/X LSCA330N5X70
		C15	330pF/X LSCA330N5X70
		C16	100nF/10V LSCA104N2X70
5	4	C17	10nF LSCA103N5X70
		C18	10nF LSCA103N5X70
		C19	10nF LSCA103N5X70
		C20	10nF LSCA103N5X70
6	25	C21	1nF LSCA102N5X70
		C22	1nF LSCA102N5X70
		C23	1nF LSCA102N5X70
		C24	1nF LSCA102N5X70
		C25	1nF LSCA102N5X70
		C26	1nF LSCA102N5X70
		C27	1nF LSCA102N5X70
		C28	1nF LSCA102N5X70

	C29	1nF	LSCA102N5X70
	C30	1nF	LSCA102N5X70
	C31	1nF	LSCA102N5X70
	C32	1nF	LSCA102N5X70
	C33	1nF	LSCA102N5X70
	C34	1nF	LSCA102N5X70
	C35	1nF	LSCA102N5X70
	C36	1nF	LSCA102N5X70
	C37	1nF	LSCA102N5X70
	C38	1nF	LSCA102N5X70
	C39	1nF	LSCA102N5X70
	C40	1nF	LSCA102N5X70
	C41	1nF	LSCA102N5X70
	C42	1nF	LSCA102N5X70
	C43	1nF	LSCA102N5X70
	C44	1nF	LSCA102N5X70
	C45	1nF	LSCA102N5X70
7	1 D1	SBA130AS	LSDSBA130AS0
8	6 D2	AIES12U02	LSL12U020R20
	D3	AIES12U02	LSL12U020R20
	D4	AIES12U02	LSL12U020R20
	D5	AIES12U02	LSL12U020R20
	D8	AIES12U02	LSL12U020R20
	D25	AIES12U02	LSL12U020R20
9	2 D6	PESD1LIN/	LSDPESD1LIN0
	D7	PESD1LIN/	LSDPESD1LIN0
10	16 D9	LFMRD-YP	LSDIREYP3000
	D10	LFMRD-YP	LSDIREYP3000
	D11	LFMRD-YP	LSDIREYP3000
	D12	LFMRD-YP	LSDIREYP3000
	D13	LFMRD-YP	LSDIREYP3000
	D14	LFMRD-YP	LSDIREYP3000
	D15	LFMRD-YP	LSDIREYP3000
	D16	LFMRD-YP	LSDIREYP3000
	D17	LFMRD-YP	LSDIREYP3000
	D18	LFMRD-YP	LSDIREYP3000
	D19	LFMRD-YP	LSDIREYP3000
	D20	LFMRD-YP	LSDIREYP3000
	D21	LFMRD-YP	LSDIREYP3000
	D22	LFMRD-YP	LSDIREYP3000
	D23	LFMRD-YP	LSDIREYP3000
	D24	LFMRD-YP	LSDIREYP3000

11	2 EC1	EBF624746LDSE15244K80	
	EC2	EBF624746LDSE15244K80	
12	10 JP1	JIG POINT	
	JP2	JIG POINT	
	JP3	JIG POINT	
	JP4	JIG POINT	
	JP5	JIG POINT	
	JP6	JIG POINT	
	JP7	JIG POINT	
	JP8	JIG POINT	
	JP9	JIG POINT	
	JP10	JIG POINT	
13	1 J1	05002HR-1LSJ02HR10N20	
14	1 R1	82R/F	LSRA082RF100
15	1 R2	100R/F	LSRA100RF100
16	1 R3	120R/F	LSRA120RF100
17	1 R4	150R/F	LSRA150RF100
18	1 R5	180R/F	LSRA180RF100
19	1 R6	240R/F	LSRA240RF100
20	1 R7	300R/F	LSRA300RF100
21	1 R8	430R/F	LSRA430RF100
22	1 R9	620R/F	LSRA620RF100
23	1 R10	1K/F	LSRA1001F100
24	4 R11	10K	LSRA1002J100
	R12	10K	LSRA1002J100
	R13	10K	LSRA1002J100
	R14	10K	LSRA1002J100
25	24 R15	3.6K/1608	LSRC3601J200
	R16	3.6K/1608	LSRC3601J200
	R18	3.6K/1608	LSRC3601J200
	R19	3.6K/1608	LSRC3601J200
	R21	3.6K/1608	LSRC3601J200
	R22	3.6K/1608	LSRC3601J200
	R24	3.6K/1608	LSRC3601J200
	R25	3.6K/1608	LSRC3601J200
	R27	3.6K/1608	LSRC3601J200
	R28	3.6K/1608	LSRC3601J200
	R30	3.6K/1608	LSRC3601J200
	R31	3.6K/1608	LSRC3601J200
	R33	3.6K/1608	LSRC3601J200
	R34	3.6K/1608	LSRC3601J200
	R36	3.6K/1608	LSRC3601J200

		R37	3.6K/1608 LSRC3601J200
		R39	3.6K/1608 LSRC3601J200
		R40	3.6K/1608 LSRC3601J200
		R42	3.6K/1608 LSRC3601J200
		R43	3.6K/1608 LSRC3601J200
		R45	3.6K/1608 LSRC3601J200
		R46	3.6K/1608 LSRC3601J200
		R48	3.6K/1608 LSRC3601J200
		R49	3.6K/1608 LSRC3601J200
26	12	R17	3.6K/1608, LSRC3601J200
		R20	3.6K/1608, LSRC3601J200
		R23	3.6K/1608, LSRC3601J200
		R26	3.6K/1608, LSRC3601J200
		R29	3.6K/1608, LSRC3601J200
		R32	3.6K/1608, LSRC3601J200
		R35	3.6K/1608, LSRC3601J200
		R38	3.6K/1608, LSRC3601J200
		R41	3.6K/1608, LSRC3601J200
		R44	3.6K/1608, LSRC3601J200
		R47	3.6K/1608, LSRC3601J200
		R50	3.6K/1608, LSRC3601J200
27	8	SW1	SKPMAPEC LSSPMAPE0100
		SW2	SKPMAPEC LSSPMAPE0100
		SW3	SKPMAPEC LSSPMAPE0100
		SW4	SKPMAPEC LSSPMAPE0100
		SW5	SKPMAPEC LSSPMAPE0100
		SW6	SKPMAPEC LSSPMAPE0100
		SW7	SKPMAPEC LSSPMAPE0100
		SW8	SKPMAPEC LSSPMAPE0100
28	1	SW9	SKSUAAE0 LSSSUAAE0100

BD[AV] Revised: Thursday, January 02, 2020

[01] Title Revision: 0.2

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Item	Quantity	Reference	Part
1	1	ANT500	ACS2450HBAGN4
2	1	C300	1uF/10V
3	8	C301	100nF/16V
		C304	100nF/16V
		C308	100nF/16V
		C503	100nF/16V
		C504	100nF/16V
		C505	100nF/16V
		C507	100nF/16V
		C600	100nF/16V
4	5	C302	10uF/6.3V/1608
		C303	10uF/6.3V/1608
		C309	10uF/6.3V/1608
		C506	10uF/6.3V/1608
		C601	10uF/6.3V/1608
5	2	C305	10pF/X
		C306	10pF/X
6	2	C307	10nF
		C508	10nF
7	1	C310	10uF/10V/2012
8	1	C311	10uF/10V/2012/X
9	3	C312	220nF/25V/1608
		C315	220nF/25V/1608
		C316	220nF/25V/1608
10	4	C313	10uF/25V/3216
		C314	10uF/25V/3216
		C405	10uF/25V/3216
		C406	10uF/25V/3216
11	4	C400	100nF/25V

		C402	100nF/25V
		C414	100nF/25V
		C421	100nF/25V
12	1	C401	4.7uF/25V/2012
13	1	C403	1nF
14	7	C404	100nF/50V/1608
		C407	100nF/50V/1608
		C409	100nF/50V/1608
		C410	100nF/50V/1608
		C411	100nF/50V/1608
		C412	100nF/50V/1608
		C416	100nF/50V/1608
15	2	C408	1uF/50V/1608
		C417	1uF/50V/1608
16	1	C413	8.2nF/50V/1608
17	1	C415	4.7uF/10V/2012
18	2	C418	330P/50V
		C420	330P/50V
19	1	C419	1uF/50V/2012
20	1	C500	100pF
21	1	C501	1.2pF
22	1	C502	1pF/X
23	4	D300	ESD7361P2T5G
		D301	ESD7361P2T5G
		D302	ESD7361P2T5G
		D303	ESD7361P2T5G
24	1	D304	RB160M-30
25	1	D400	RB160M-60TR
26	3	D401	BAT54S
		D402	BAT54S
		D403	BAT54S
27	6	D600	AIES12U020R2/X
		D601	AIES12U020R2/X
		D602	AIES12U020R2/X
		D603	AIES12U020R2/X
		D604	AIES12U020R2/X
		D605	AIES12U020R2/X
28	4	H400	H-TH-3-3_8-1
		H401	H-TH-3-3_8-1
		H402	H-TH-3-3_8-1
		H403	H-TH-3-3_8-1
29	3	I400	DRAM_A14

		I401	DRAM_A14
		I402	DRAM_A14
30	90	JP300	JIG POINT
		JP301	JIG POINT
		JP302	JIG POINT
		JP303	JIG POINT
		JP304	JIG POINT
		JP305	JIG POINT
		JP306	JIG POINT
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JP340	JIG POINT
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JP366	JIG POINT
JP367	JIG POINT
JP368	JIG POINT
JP600	JIG POINT
JP601	JIG POINT
JP602	JIG POINT
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JP611	JIG POINT
JP612	JIG POINT

	JP613	JIG POINT
	JP614	JIG POINT
	JP615	JIG POINT
	JP616	JIG POINT
	JP617	JIG POINT
	JP618	JIG POINT
	JP619	JIG POINT
	JP620	JIG POINT
31	1 J300	501951-6010
32	1 J301	05002HR-50N2
33	1 J302	10031HR-06
34	1 J600	501951-2410
35	1 J601	05002HR-10N2
36	3 L300	CB1608PK121T
	L401	CB1608PK121T
	L500	CB1608PK121T
37	2 L301	CB2012PK121T
	L303	CB2012PK121T
38	1 L302	YCDM5040CT-2R2NS
39	1 L400	EMC4020-100M
40	1 L501	3.9nH
41	1 Q400	SI2305
42	1 Q401	MMBT3904
43	14 R300	0R
	R301	0R
	R302	0R
	R303	0R
	R304	0R
	R305	0R
	R306	0R
	R409	0R
	R412	0R
	R503	0R
	R504	0R
	R505	0R
	R506	0R
	R507	0R
44	1 R307	330R/F
45	6 R308	4.7K
	R309	4.7K
	R311	4.7K
	R312	4.7K

	R313	4.7K
	R316	4.7K
46	4 R310	4.7K/X
	R314	4.7K/X
	R315	4.7K/X
	R317	4.7K/X
47	2 R318	0R/X
	R324	0R/X
48	1 R319	100/F/1608
49	2 R320	200K/F
	R415	200K/F
50	1 R321	10K/F
51	1 R322	33R
52	1 R323	0.82R/2012
53	1 R325	33R/X
54	2 R326	1K
	R408	1K
55	2 R400	100K
	R411	100K
56	1 R401	2.2K
57	2 R402	10K/X
	R600	10K/X
58	1 R403	44.2K/F
59	1 R404	91K/F
60	1 R405	200R/F
61	1 R406	12K/F
62	1 R407	28K/F
63	1 R410	6.8K
64	1 R413	82K/F
65	2 R414	12.7K/F
	R416	12.7K/F
66	1 R500	47KR
67	1 R501	10KR
68	1 R502	10R
69	2 TP500	TP1.0
	TP501	TP1.0
70	1 U300	RP114N331D
71	1 U301	MP3305/QFN8
72	1 U400	MPQ1530DQ-LF-Z
73	1 U401	LM8261A
74	1 U500	ADB-20713
75	1 Y500	ZK13867_221SR_32.768KHz

ADB-20713-000 Part lists

NO	Discription	품 명	규 격	Location	Maker	Quantity	비 고
1	Band pass Filter	BPF2520B2R4CAC	2.5*2.0	BPF1	ACX	1	
2	Bluetooth Chip	BCM20713A1KUBG	UFBGA-42ball	U1	Cypress	1	
3	Chip Bead	WLBD1005Z0J601TB	1005, 600R	BD1	Walsin	1	
4	Chip Inductor	WLCM1005Z0J2N2TB	1005, 2.2nH	L1	Walsin	1	
5	Chip capacitor	0603B225M100CT	1608, 2.2uF	C1, C9	Walsin	2	
6	Chip capacitor	0402B103K100CT	1005, 10nF	C2, C3, C4, C6	Walsin	4	
7	Chip capacitor	0402B105M100CT	1005, 1uF	C5	Walsin	1	
8	Chip capacitor	RF15N100J100CT/ 0402N100J100CT	1005, 10pF	C7, C8, C12, C13	Walsin	4	
9	Chip capacitor	RF15N220J100CT/ 0402N220J100CT	1005, 22pF	C10, C11	Walsin	2	
10	~~Chip capacitor~~	NC	~~1005, NC~~	~~C14~~			
11	~~Chip capacitor~~	NC	~~1005, NC~~	~~C15~~			
12	~~Chip Resistor~~	NC	~~1005, NC~~	~~R4~~			
13	Chip Resistor	WR04X1502FTL	1005, 15k Ω , 1%	R1	Walsin	1	
14	Chip Resistor	WR04X000PTL	1005, 0 Ω	R5	Walsin	1	
15	Chip Resistor	WR04X754JTL	1005, 750k Ω , 5%	R2	Walsin	1	
16	Chip Resistor	WR04X100JTL	1005, 10 Ω , 5%	R3	Walsin	1	
17	X-Tal, 26MHz	DSX211G_26M_10PPM_-20	2.0*1.6	Y1	KDS	1	
18	~~X-Tal, 32.768KHz~~	NC	NC	~~Y2~~			
19	PCB, 6-Layer Build-up	PCB	13*11mm*0.8T	PCB	(주)치크리트	1	
20	Shield CAN				(주)삼흥 하이텍	1	