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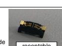
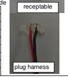
Project: BS03R
Date:20/12/2006
Version: 3.3A

S/N	Comment	Pattern	Quantity	Components	1st Supplier	Manufacturer P/N	2nd Supplier	Manufacturer P/N	Remark
1	DIELECTRIC ANT	ANT_7.8x3.6	1	A1	YAGEO	CAN4311115002451K			
2	MIC Socket(bundle with mic)	20 3001 002 201	1	MIC	GAGNER	20 3001 002 201			
3	MIC with connector		1		GAGNER	ACMG6022-02C20-443			
4	2.5mm Jack	LGK2009	1	J1	KUNMING	KM03011			
5	CON6	S6B-ZR	1	J2	JST	S6B-ZR			
6	100n	0402	15	C1 C2 C7 C11 C23 C24 C25 C30 C42 C43 C44 C50 C62 C70 C71	YAGEO or MURATA	C0402KRX7R7BB104 GRM155R61A104KA01D			
7	1p5	0402	1	C28	MURATA	GRM1555C1H1R5CZ01D			
8	8p2	0402	1	C29	MURATA	GRM1552C1H8R2CZ01D			
9	12p	0402	1	C32	MURATA	GRM1555C1H120JZ01D			
10	18p	0402	1	C31	MURATA	GRM1555C1H180JZ01D			
11	22p	0402	1	C21	MURATA	GRM1555C1H220JZ01D			
12	47p	0402	2	C13 C14	MURATA	GRM1552C1H470JZ01D			
13	180p	0402	2	C5 C22	MURATA	GRM1555C1H181JA01D			
14	220p	0402	2	C35 C36	MURATA	GRM1555C1H221JA01D			
15	0.5p	0402	1	C20	MURATA	GRM1555C1HR50CZ01D			
16	22n	0402	1	C45	MURATA	GRM155R71H223KA12D			
17	100n 50V	0603	2	C4 C12	MURATA	GRM188R71H104KA93D			
18	470n	0603	3	C15 C16 C19	MURATA	GRM188R71C474KA88D			change value to 0.47uF
19	1u	0603	5	C8 C17 C18 C27 C49	MURATA	GRM188R61A105KA12D			
20	2.7p	0402	1	L4	MURATA	GRM1555C1H2R7CZ01D			
21	4.7u	0603	2	C26 C39	MURATA	GRM188R60J475KE19D			
22	10u	0805	3	C38 C58 C60	NIC	NTC-T106M6.3TRP			
23	4.7u 25V	0805	2	C3 C51	MURATA	GRM21BR61E475KA12L			
24	100u 6.3	3528	1	C10	NIC	NTC-T107K6.3TRBF			
25	0R0	0402	8	R7 R10 R13 R25 R55 R57 R59 R60	KOA	RK73Z1ETTP			
26	0R0	0603	2	C53 C54	KOA	RK73Z1JTTP			
27	120R	0402	1	R4	KOA	RK73B1ETTP121J			
28	560R	0402	1	R3	KOA	RK73B1ETTP561J			
29	470k	0402	1	R42	KOA	RK73B1ETTP474J			
30	2.2k	0402	1	R54	KOA	RK73B1ETTP222J			
31	3.3k	0402	1	R12	KOA	RK73B1ETTP332J			
32	5.6k	0402	2	R11 R29	KOA	RK73B1ETTP562J			
33	5.1k	0402	1	R8	KOA	RK73B1ETTP512J			
34	27k	0402	6	R1 R2 R22 R23 R24 R27	KOA	RK73B1ETTP273J			
35	47k	0402	3	R20 R33 R36	KOA	RK73B1ETTP473J			
36	56k	0402	1	R19	KOA	RK73B1ETTP563J			
37	100k	0402	9	R6 R15 R28 R31 R32 R34 R49 R50 R51	KOA	RK73B1ETTP104J			
38	18k	0402	2	R40 R41	KOA	RK73B1ETTP183J			
39	1M	0402	3	R14 R21 C34	KOA	RK73B1ETTP105J			
40	0R33	0603	1	R9	KOA	SR731JTTP0R33F			
41	120R	0603	4	R37 R38 R39 R48	KOA	RK73B1JTTP121J			
42									
43	1n0	0402	1	L3	TAIYO YUDEN	HK1005 1N0S-T			
44	2n7	0402	1	L6	MURATA	LQG15HS2N7S02D			
45	BLM18BD601SN1	0603	4	L7 L10 L11 L13	MURATA	BLM18BD601SN1			
46	LQH32CN101K21	LQH32	1	L8	MURATA	LQH32CN101K21			
47	DLM2HG	DLM2HG	2	L2 L12	MURATA	DLM2HGN601SZ3			
48	LQH43CN150K03	LQH43C	1	L1	MURATA	LQH43CN150K03			
49	12MHz DSX321SL	XTAL-X42	1	Y1	KDS	DSX321G 12MHz 12pf +/-15ppm	JAS	X42 12MHz 12pf +/-10ppm	
50									
51	36MHz	CSTCZ	1	Y3	MURATA	CSTCZ36M0X12R**-B0			
52	BC847BS	SC70	1	Q1	Lionex: Philips	BC847BS			
53	0R0	SOD80	1	D7	KOA	RK73Z2BTTD			
54	Slide Switch	MMP121-R	1	S1	GAGNER	IS-1290AP			
55	SW-PB	TACT	1	S6	GAGNER	IT-1186AU2			
56	SW-PB	TACT	4	S2 S3 S4 S5	GAGNER	IT-1185AU1			
57	LED RED	HT-S91	1	D1	SOURCEONE	HT-S91USD			
58	LED BLUE	HT-S91	1	D2	SOURCEONE	HT-S91NB5			
59	LED WHITE	HT-S91	4	D3 D4 D5 D6	SOURCEONE	HT-S91TW	Clarion	Everlight: 19-217/W1D-ANPHY/3T	
60	RB491DT	SOT-23	1	D8	Lionex: Philips	PMEG4005ET			
61	LMV321IDCKR	SC70	1	U8	SerialMicro: TI	LMV321IDCKR			
62	74LVC1G04	SC70-5	1	U3	SerialMicro: TI	SN74LVC1G04DCKR	Lionex:Philips	74LVC1G04GW	3rd supplier:Yosun Manucfaturer:Fairchild : NC7SZ04P5X
63	74LVC1G32	SC70-5	1	U10	SerialMicro: TI	SN74LVC1G32DCKR	Lionex:Philips	74LVC1G32GW	3rd supplier:Yosun Manucfaturer:Fairchild : NC7SZ32P5X
64	BT200	SOT23-6	1	U12	BITwave	BT200			
65	L6902D	SOP8	1	U2	Lionex: ST	E-L6902D013TR			
66	ADSST-BITW2000	MBGA144	1	U6	Yosun	ADSST-BITW2000			
67	RF3505	VFBGA96	1	U4	Yosun	RF3505G1-T13	Yosun	SiW3500GIG1	
68	SST39VF800-TFBGA48	TFBGA48	1	U5	Avnet: Spansion	Am29SL400CT100RWAF	SerialMicro: SST	SST39WF400A-90-4IB3KE	
69	TLV320AIC23B	QFN28	1	U7	SerialMicro: TI	TLV320AIC23BIRHDR			
70	PESD12VS1UL	SOD882	1	D9	Lionex: Philips	PESD12VS1UL			
71	FDY301NZ	SC89	1	Q3	Yosun:FAIRCHILD	FDY301NZ			
72	Receiver Cable		1		REKA				
73	PCB		1						
	TOTAL:		139						

Microphone wiring specification for ACMG6022-02C25-443

	Description	Specification
	Mic part num	ACMG6022-02C25-443
	Connectors	plug harness + receptacle should be included
	leadwire length	20mm
	wire orientation on plug harness:	see pic on the irght: red wire(+ve) on the left side, black wire(-ve) on the right side





10/05/06:
1. Item 56, change part number from IT-1185AU2 to IT-1185AU1 or IT-1185AP1.

12/06/06:
1. item 51, change part number from "X42 36MHz 18pf 30ppm" to "CSTCZ36M0X".
2. item 5, change part number from S5B-ZR to S6B-ZR.
3. Add D9 and Q3 in item 70 and 71.

19/06/06:
1. REMOVE COMPONENTS:
   ITEM 53 BC847BPN
   ITEM 34 R7 27K
   ITEM 27 R43 120R
   ITEM 42 R44 680R
   ITEM 38 R53 150K
   ITEM 61 UA78L08ACPK
   ITEM 20 C5 C6 1u/25V
   ITEM 26 R18 10R
   ITEM 28 R30 560R
   ITEM 15 C66 560P
2. ADD COMPONENTS:
   ITEM 61 LMV321IDCKR.
3. CHANGE VALUE:
   R40 R41 FROM 4.7K TO 18K.
   R42 FROM 1.5k TO 470K.

22/06/06:
1. Item 49, Change crystal load capacitor value from 18pF to 12pF.
2. Item 3, Change mic part number as ACMG6022-02C25-443.

23/06/06:
1. Modify some part numbers as vendor recommended.
2. Item 72, add Receiver cable.
3. Add microphone wiring specification for mic ACMG6022-02C25-443.
4. Item 59, add 2nd supplier.

26/06/06:
1. Added supplier contact for receiver cable
2. Item 51, add part number detail.
3. Item 71, Change 2N7002 to Si1032R-T1-E3.
4. item 11, remove C40 and C41.

29/06/06:
1. Item 71, change Si1032R-T1-E3 to FDY301NZ
2. Supplier list, bitwave contact email addr change to lowwm@bitwave.com.sg
3. item 22 part number GRM21BR60A106KE19L change to GRM21BR61A106KE19L
4. Item 12, 47p part num changed from GRM1555C1H470JZ01D to GRM1552C1H470JZ01D
5. Item 8, 8.2pF part num changed from GRM1555C1H8R2CZ01D to GRM1552C1H8R2DZ01D
6. Item 62,63, new supplier added

03/07/06:
1. Item 70, part num changed from ESDALC6V1-1M2 to PESD5V0S1UL

05/07/06:
1. Item 8, part num changed from GRM1552C1H8R2DZ01D to GRM1552C1H8R2CZ01D
2. Item 3, part num changed from ACMG6022-02C25-443 to ACMG6022-02C20-443

14/07/06:
1. Item 39, added R14 to 1M ohm

10/08/06:
1. Item 70, part num changed from PESD5V0S1UL to PESD12VS1UL
2. Item 50, added 2nd supplier

15/08/06:
1. Item 39, R22,R23,R24,R27 changed from 1M ohm to 27k (item 34)

17/08/06:
1. update the quantity for item 39, 34
2. item 50, remove Y2.
3. item 10, remove C33.
4. item 39, change C34 value from 18pF (item 10) to 1M (item 39).
5. item 15, add C20 0.5pF. New value.
6. item 20, change L4 value from 2.7nH (item 44) to 2.7pF (item 20). New value.
7. item 1, change part number from CAN4311115002601K to CAN4311115002451K. New value.

15/09/06:
1. item 13, add C5.
2. item 45, add L13.
3. item 59, remove D7.
4. item 46, change part number from BLM18PG181SN1 to LQH32CN101K21. Remove L9. New Value.
5. item 37, add R28.
6. item 32, add R29.

18/09/06:
1. item 25, add R7 and R10.

21/09/06:
1. item 41, remove R52.
2. item 6, remove C9.
3. item 14, remove C37.
4. item 53, add D7, value EGL34A. New Value. http://www.vishay.com/docs/88580/egl34.pdf

04/10/06:
1. item 53, change D7 value from EGL34A to EGL34B.

02/11/06:
1. Item 43, change part number from LQG15HS1N8S02D (Murata) to HK1005 1N8S-T (TAIYO YUDEN).

10/11/06:
1. This BOM list is modified for BS03RV2.1 PCB.
2. item 23, add C51 (4.7uF 25V).
3. item 19, add C52, C53 and C54 to 1uF.
4. item 38, add R55, R56, R57, R58 to 18k.
5. item 35, add R59, R60 to 47k.
6. Item 50, add U11 New Value - LM258DGKR.
   TI - LM258DGKR http://focus.ti.com/lit/ds/symlink/lm358.pdf
   or ON SEMI - LM258DMR2G http://www.onsemi.com/pub/Collateral/LM358-D.PDF

11/12/06:
1. Item 68, add Spansion flash Am29SL400CT100RWAF.
2. Item 67, change part number from SiW3500 to RF3505.
3. Item 26, add New Part RK73Z1JTTP, for C53, C54.
4. Item 28, change R3 value from 120R to 560R.
5. Item 22, change part number and supplier to NIC NTC-T106M6.3TRP.
6. Item 53, change part number from Diode to 0 ohm resistor RK73Z2BTTD - New Part.
7. Item 50, remove U11 (LM258DGCK).
8. Item 19, Remove R52, R53, R54.
9. Item 38, remove R55, R56, R57, R58.
10. Item 35, remove R59, R60.
11. Item 25, add R55, R57, R59, R60.
12. Item 19, remove C52.

18/12/06:
1. Item 43, change value from 1n8 to 1nH. (better RF output)
2. Item 32, change value from 4.7k to 5.6k. New Part.(set max analog out 1.1Vrms)

20/12/06
1. Item 22, remove murata as second supplier