

ABR-H

| Item | Quantity | Reference | Part | Description | Vendor |
|------|----------|--|--------------------|------------------------------------|-----------------|
| 1 | 40 | C1,C2,C3,C4,C5,C6,C7,C8,C9,C10,C11,C12,C13,C14,C15,C16,C17,C18,C19,C20,C22,C23,C24,C25,C26,C33,C36,C40,C51,C52,C53,C54,C55,C56,C57,C58,C59,C62,C64,C68 | CL05A104KA5NNN | 100nF/10V/10%/X5R | Samsung elec |
| 2 | 4 | C21,C27,C32,C67 | CL10A105KB8NNN | 1uF/50V/10%/X5R | Samsung elec |
| 3 | 2 | C29,C30 | CL05C120JB5NNN | 12pF/50V/5%/X5R | Samsung elec |
| 4 | 9 | C34,C35,C37,C38,C39,C41,C42,C70,C71 | CL21A106KPFNNN | 10uF/6.3V/10%/X5R | Samsung elec |
| 5 | 1 | C63 | TCTP0J336M8R-E1 | 33uF/6.3V/20%/X5R | Nichicon |
| 6 | 3 | C65,C66,C69 | TMCP0J106MTRF | 10uF/6.3V/20%/X5R | VISHAY |
| 7 | 1 | C72 | CL05B471KB5NNN | 470pF/50V/10%/X5R | Samsung elec |
| 8 | 2 | C73,C74 | CL05B331KB5NNN | 330pF/50V/10%/X5R | Samsung elec |
| 9 | 1 | D2 | IR42-21C/TR8 | IR EMITTER | Ever Right |
| 10 | 1 | D21 | ESD5Z5.0T1G | ESD Protection Diode | ON Semi |
| 11 | 1 | D22 | ZM-P1I200X-G42T | High Power IR | Dream Opto Tech |
| 12 | 1 | J7 | 12505WS-02 | 1.25mm/2P | Yeonho |
| 13 | 1 | J11 | BTB080022-F2S11200 | BTB CONNECTOR | ATOM |
| 14 | 1 | Q1 | MMBT2222AS | NPN General Purpose Amplifier | Fairchild |
| 15 | 1 | Q2 | IRLML2803TRPBF | N-CH MOSFET | IRF |
| 16 | 1 | J5 | BM08B-SRSS-TB | 1mm/8P | JST |
| 17 | 1 | J6 | RB-B4013RT02-T | MicroPhone | RUIBO |
| 18 | 8 | L1,L2,L3,L4,L6,L9,L10,L11 | CIM10J121NC | 120/500mA/25% | Samsung elec |
| 19 | 1 | L7 | LQM21PN4R7NGRD | 4.7uH/80mA/30% | MURATA |
| 20 | 1 | Q3 | MMBT3904LT1G | NPN TR | KEC |
| 21 | 3 | RN1,RN2,RN3 | WA04X201JTL | 200/5%/16W/100ppm | WALSN TECH |
| 22 | 2 | R2,R3 | RC1005F102CS | 1K/1%/16W/100ppm | Samsung elec |
| 23 | 4 | R4,R17,R26,R28 | RC1005J472CS | 4.7K/5%/16W/100ppm | Samsung elec |
| 24 | 1 | R5 | WR06X300JTL | 30/5%/10W/100ppm | WALSN TECH |
| 25 | 1 | R6 | RC1005J473CS | 47K/5%/16W/100ppm | Samsung elec |
| 26 | 1 | R7 | RC2012J100CS | 10/5%/10W/100ppm | Samsung elec |
| 27 | 2 | R8,R79 | RC1005F1212CS | 12.1K/1%/16W/100ppm | Samsung elec |
| 28 | 4 | R9,R34,R46,R50 | RC1005F103CS | 10K/1%/16W/100ppm | Samsung elec |
| 29 | 2 | R11,R30 | RC1005J204CS | 200K/5%/16W/100ppm | Samsung elec |
| 30 | 4 | R12,R13,R18,R20 | RC1005F330CS | 33/5%/1/16W/100ppm | Samsung elec |
| 31 | 1 | R15 | RC1005F105CS | 1M/1%/16W/100ppm | Samsung elec |
| 32 | 1 | R16 | WR04X394JTL | 390K/5%/16W/100ppm | WALSN TECH |
| 33 | 2 | R21,R22 | RC1608J153CS | 15K/5%/10W/100ppm | Samsung elec |
| 34 | 2 | R23,R74 | RC1005J000CS | 0/5%/16W/100ppm | Samsung elec |
| 35 | 4 | R25,R27,R36,R38 | RC1608J000CS | 0/5%/10W/100ppm | Samsung elec |
| 36 | 1 | R29 | RC1608J102CS | 1K/5%/10W/100ppm | Samsung elec |
| 37 | 1 | R31 | WR04X104JTL | 100K/5%/16W/100ppm | WALSN TECH |
| 38 | 1 | R33 | RC1005J102CS | 1K/5%/16W/100ppm | Samsung elec |
| 39 | 2 | R48,R49 | RC1005J100CS | 10/5%/16W/100ppm | Samsung elec |
| 40 | 2 | R55,R56 | RC1005J332CS | 3.3K/5%/16W/100ppm | Samsung elec |
| 41 | 1 | R57 | WR04X3162FTL | 31.6K/1%/16W/100ppm | WALSN TECH |
| 42 | 1 | R73 | RC1608J103CS | 10K/5%/10W/100ppm | Samsung elec |
| 43 | 1 | R77 | RC1005J103CS | 10K/5%/16W/100ppm | Samsung elec |
| 44 | 1 | R78 | RC1005F303CS | 30K/1%/16W/100ppm | Samsung elec |
| 45 | 1 | U1 | N32905U2DN | Media Processor | NUVOTON |
| 46 | 1 | U2 | K9F1G08U0E-SCB | 128MB Nand Flash | Samsung elec |
| 47 | 1 | U9 | AP2112K-3.3TRG1 | Ultra-Fast CMOS LDO Regulator | DIODE |
| 48 | 1 | U10 | ZT7103T | DC-DC CONVERTER | ZILLTEK TECH |
| 49 | 1 | U11 | ISD8101SYI | 1.5W Audio Amplifier | NUVOTON |
| 50 | 1 | U12 | NC7WZ14P6X | Dual Inverter With Schmitt Trigger | Fairchild |
| 51 | 1 | U13 | AP2127K-ADJTRG1 | Ultra-Fast CMOS LDO Regulator | DIODE |
| 52 | 1 | U14 | OV5640-A71A | 5M Image Sensor | Omnivision |
| 53 | 1 | Y2 | 82J0460-12.000MHz | 12Mhz Crystal | ITTI |

ABR-2L

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|------|----------|---|-----------------------|--------------------------------------|-------------------|
| 1 | 7 | C3,C6,C7,C9,C5,C29,C30 | CL05A104KA5NNN | 100nF/10V/10%/X5R | Samsung elec |
| 2 | 8 | C12,C13,C14,C16,C28,C33,C34,C35 | CL10F104ZB8NNN | 100nF/50V/+80/-2%/Y5V | Samsung elec |
| 3 | 1 | C20 | CL05B223KO5NNN | 22nF/16V/10%/X7R | Samsung elec |
| 4 | 17 | C1,C2,C4,C8,C10,C11,C15,C17,C18,C19,C21,C22,C26,C31,C32,C36,C37 | CL21A106KPFNNN | 10uF/6.3V/10%/X5R | Samsung elec |
| 5 | 1 | C23 | CL31A226KQHHNNE | 22uF/6.3V/10%/X5R | Samsung elec |
| 6 | 3 | C24,C25,C27 | TMCMA1C106MTRF | 10uF/16V/20% | VISHAY |
| 7 | 1 | D10 | IR42-21C/TR8 | IR EMITTER | Ever Right |
| 8 | 7 | D3,D6,D12,D15,D19,D20,D21 | ESD5Z5.0T1G | ESD Protection Diode | ON Semi |
| 9 | 1 | D16 | ZM-P11200X-G42T | High Power IR | Dream Opto Tech |
| 10 | 1 | J3 | 12505WS-02 | 1.25mm/2P | Yeonho |
| 11 | 1 | J34 | BTB080022-F2S11200 | BTB CONNECTOR | ATOM |
| 12 | 6 | Q2,Q3,Q6,Q12,Q13,Q14 | MMBT2222AS | NPN General Purpose Amplifier | Fairchild |
| 13 | 1 | Q9 | IRLML2803TRPBF | N-CH MOSFET | IRF |
| 14 | 1 | DN1 | DAN222TL | DUAL DIODE | ROHM |
| 15 | 3 | D2,D7,D13 | SS1040-T1 | Surface mount schottky barrier diode | KD DIOTECH |
| 16 | 1 | D4 | SS24/DO-214AC | Schottky Power Rectifier | Fairchild |
| 17 | 4 | D8,D9,D17,D18 | BAT54S/SOT | Small Signal Schottky Diodes | VISHAY |
| 18 | 1 | D14 | LNS-S1608RE-T6 | Chip LED RED | LIGITEK |
| 19 | 2 | J11,J51 | BTB080022-M2S11200 | BTB CONNECTOR | ATOM |
| 20 | 1 | J12 | LDMS1540S-01-R8-0.8-R | SMD SPEAKER | ChangZhou Elec |
| 21 | 4 | J15,J16,J25,J26 | HBP-30088060T | POGO | Hanbit |
| 22 | 5 | J22,J29,J32,J43,J44 | MPB4054Y0301 | INTERFACE CONNECTOR | WFD Elec |
| 23 | 2 | J24,J27 | 10118194-0001LF | Micro USB 5P | HUA LIAN WEI TECH |
| 24 | 1 | J37 | SM08B-SRSS-TB | 1mm/8P | JST |
| 25 | 3 | Q1,Q4,Q5 | QM2423K | P-CH MOSFET | UBIQ Corp |
| 26 | 1 | Q7 | SI2333CDS | P-CH MOSFET | VISHAY |
| 27 | 1 | Q8 | 2N7002ET1G | NPN TR | ON SEMI |
| 28 | 2 | Q10,Q11 | MMBT2907A | PNP TR | Fairchild |
| 29 | 16 | R1,R3,R4,R5,R6,R10,R11,R12,R19,R24,R42,R45,R46,R71,R74,R75 | RC1005J103CS | 10K/5%/16W/100ppm | Samsung elec |
| 30 | 1 | R7 | RC1005F122CS | 1.2K/1%/16W/100ppm | Samsung elec |
| 31 | 1 | R8 | RC1005F152CS | 1.5K/1%/16W/100ppm | Samsung elec |
| 32 | 1 | R9 | RC1005F123CS | 6.98K/1%/16W/100ppm | Samsung elec |
| 33 | 8 | R13,R14,R15,R17,R18,R52,R55,R57 | RC1005J101CS | 100/5%/16W/100ppm | Samsung elec |
| 34 | 6 | R20,R44,R64,R66,R67,R72 | RC1005J000CS | 0/5%/16W/100ppm | Samsung elec |
| 35 | 2 | R21,R22 | RC1005F105CS | 1M/1%/16W/100ppm | Samsung elec |
| 36 | 11 | R23,R25,R29,R34,R36,R58,R59,R60,R61,R62,R65 | RC1005J102CS | 1K/5%/16W/100ppm | Samsung elec |
| 37 | 2 | R26,R32 | RC1005F303CS | 30K/1%/16W/100ppm | Samsung elec |
| 38 | 2 | R27,R33 | RC1005F750CS | 75/1%/16W/100ppm | Samsung elec |
| 39 | 6 | R39,R40,R56,R68,R69,R70 | WR04X472JTL | 4.7K/5%/16W/100ppm | WALSN TECH |
| 40 | 2 | R30,R31 | WW08XR500FTL | 0.5/1%/16W/100ppm | WALSN TECH |
| 41 | 2 | R37,R38 | RC2012J000CS | 0/5%/16W/100ppm | Samsung elec |
| 42 | 1 | R41 | WR06X300JTL | 30/5%/10W/100ppm | WALSN TECH |
| 43 | 2 | R47,R49 | RC1608J471CS | 470/5%/16W/100ppm | Samsung elec |
| 44 | 1 | R48 | RC1608J102CS | 1K/5%/10W/100ppm | Samsung elec |
| 45 | 1 | R43 | RC1005J104CS | 100K/5%/16W/100ppm | Samsung elec |
| 46 | 2 | R50,R54 | RC1608J103CS | 10K/5%/10W/100ppm | Samsung elec |
| 47 | 1 | R51 | RC2012J100CS | 10/5%/10W/100ppm | Samsung elec |
| 48 | 1 | R53 | RC1608J000CS | 0/5%/10W/100ppm | Samsung elec |
| 49 | 1 | R63 | RC1005F103CS | 10K/1%/16W/100ppm | Samsung elec |
| 50 | 2 | SW1,SW2 | ST-1187 | TACT-SWITCH | CREATIVE SYSTEK |
| 51 | 1 | U1 | BQ24074RGT | Battery Charger IC | TI |
| 52 | 4 | U2,U3,U11,U12 | FM-3528RGBK-HG | 3 COLOR LED | FOSHAN OPTO |
| 53 | 2 | U4,U15 | MINI54LDE LQFP48 | MCU | NUVOTON |
| 54 | 2 | U5,U7 | MP6507GF | MOTOR DRIVER | MPS |
| 55 | 2 | U6,U8 | GP2S60 | PHOTO SENSOR | SHARP |
| 56 | 1 | U9 | RT9193-33GB | LDO Regulator | RICHTEK |
| 57 | 1 | U10 | IL1117S-3.3V/SOT223 | LDO Regulator | TEAJIN |
| 58 | 1 | U13 | GP1S092HCPIF | PHOTO SENSOR | SHARP |
| 59 | 1 | U14 | IRM-3638T | Receiver Module | OPTO SNESOR |
| 60 | 1 | U16 | SV03A103AEA01R00 | VOLUME | MURATA |
| 61 | 1 | U19 | 74LVC2G125DP | 2CH BUFFER | NXP |
| 62 | 1 | U20 | AP2112K-3.3TRG1 | Ultra-Fast CMOS LDO Regulator | DIODE |
| 63 | 1 | J52 | FN-8126MEU | WIFI MODULE | FN-LINK |