## VIS GAMEBOY DMGC v4.0\_v4.1 BOM

Link port	COMPONENT	DESCRIPTION	LCSC CODE	Mfr. Part #
Power Switch	Link port			Grab from DMG PCB or
Solic cartdridge				from the DMG-07
C1A, C1B, C1C	Power Switch	1212 pin 2P4T	C2939338	_
100 μF 10V 1206   C312983   GRM31CR61A107MEOSL   C2   27 pF 50V 0603   C162215   GRM1885C21A180IA16D   C2   27 pF 50V 0603   C162215   GRM1885C21A180IA16D   C3   C3   C408549   GCM1885C2A220IA16D   C4   C2 pF 0603   C408549   GCM1885C2A220IA16D   C3   C3   C3   C408549   GCM1885C2A220IA16D   C3   C3   C3   C408549   GCM1885C2A220IA16D   C3   C3   C408549   GCM1885C2A220IA16D   C3   C408549   GCM1885C2A220IA16D   C4   C4   C4   C4   C4   C4   C4   C	Slot cartdridge	32 pin		
C1         18 pF 100V 0603         C913624         GCM188SC2A180JA16D           C2         27 pF 50V 0603         C162215         GRM188SC2A20JA16D           C9, C10, C29, C33, C41, C45         (20 pF 0603         C408549         GCM188SC2A20JA16D           C9, C10, C29, C33, C41, C45         (10 nF 50V 0603         C100042         CC0603KRX7R9BB103           C16, C17, C39, C40         1 uF 0603         C126631         GRT188R61H105KE13D           C5, C6, C7, C79         100 pF 50V 0603         C14665         CC0603JRNP099R101           C24, C28, C43, C75, C82         100 nF 100V 0603         C161117         GCM188R72A104KA01D           C37, C81         10 µF 10V 0603         C2176758         GCM188R71C394KA55D           C50, C51         390 nF 16V 0603         C437460         GCM188R71C394KA55D           C52, C53 (audio "bass mod")         1 µF 16V 0603         C77049         GRM188R71C105KE15D           C52, C53 (normal audio bass)         1 µF 16V 0603         C77049         GRM188R71C105KE15D           C52, C53 (audio "bass mod")         1 µF 16V 0603         C77049         GRM188R71C105KE15D           C75, C72, C73, C78, C72, C74, C72, C72, C72, C72, C72, C72, C72, C72	C1A, C1B, C1C	100 μF 6.3V 1206	C77085 or	GRM31CR60J107ME39L
C2		100 μF 10V 1206	C312983	GRM31CR61A107ME05L
C4         22 pF 0603         C408549         GCM188SC2A220IA16D           C9, C10, C29, C33, C41, C45         C09, C10, C39, C38, C49 only for rev E)         C00034         C100042         C00603KRXP39BB103           C16, C17, C39, C40         1 uF 0603         C126631         GRT188R61H105KE13D           C24, C28, C34, C75, C82         100 nF 100V 0603         C161117         GC188R72A104KA01D           C37, C81         10 μF 10V 0603         C2176758         GCM188R71C394KA5D           C52, C53 (andio bass)         1 uF 16V 0603         C437460         GCM188R71C394KA5D           C52, C53 (andio bass mod")         1 uF 16V 0603         C77049         GRM188R71C105KE15D           C52, C53 (andio bass mod")         1 uF 16V 0603         C77049         GRM188R71C105KE15D           C54, C55, C56, C72, C73, C78, C78, C73, C78, C79, C79, C70         C70         GRM188R71C105KE15D           C70, C71         100 μF 6.3V D=5mm         C336192 or 100 μF 610V (tantallum)         C122271         EEE0JA101WR           C76         22 μF 10V 0603         C8449         GRM188R61A206KE5D           C74         22 ω μF 6.3V 1206         C412252         GRM31CR60/227ME11L           R3         18 K0 0603         C137655         RC0603FR-074RL           R25         1.5 MQ 100 mW 0603         C105598	C1	18 pF 100V 0603	C913624	GCM1885C2A180JA16D
C9, C10, C29, C33, C41, C45         10 nF 50V 0603         C100042         CC0603KRX7R9BB103           C16, C17, C39, C40         1 uF 0603         C126631         GRT188R61H105KE13D           C5, C6, C7, C79         100 pF 50V 0603         C146655         CC0603IRNPO9BN101           C24, C28, C43, C75, C82         100 nF 100V 0603         C161117         GC1188R72A104KA01D           C37, C81         10 µF 10V 0603         C77044         GRM188R61A106KE69D           C47         150 pP 6063         C2176758         GCM188R72A103KE5D           C50, C51         390 nF 16V 0603         C77049         GRM188R71C105KE15D           C52, C53 (audio "bass mod")         10 µF 10V 0603         C77049         GRM188R71C105KE15D           C52, C53 (audio "bass mod")         10 µF 16V 0603         C77049         GRM188R71C105KE15D           C54, C55, C56, C72, C73, C78, C78, C79, C70, C71         100 µF 630V C4natallum)         C122271         T491B107K010AT           C70, C71         100 µF 630V (16ntallum)         C122271         T491B107K010AT           C74         22 µF 10V 0603         C84419         GRM188R61A226ME15D           C74         22 µF 10V 0603         C8419         GRM188R61A226ME15D           C79, C71         100 µF 63V Desim         C32255         GRM318R61A026ME15D		<u>'</u>		GRM1885C1H270FA01D
(C35, C48, C49 only for rev E)		'	C408549	•
CS, C6, C7, C79         100 pF 50V 0603         C14665         CC0603RNPO9BN101           C24, C28, C43, C75, C82         100 nF 100V 0603         C161117         GC188R72A104K001D           C33 only for rev E)         100 nF 100V 0603         C77044         GRM188R61A106KE69D           C47         150 pF 0603         C2176758         GCM188R72A151FA16D           C50, C51         390 nF 16V 0603         C437460         GCM188R712A9KA55D           C52, C53 (audio "bass mod")         1 uF 16V 0603         C77049         GRM188R71C105KE15D           C52, C53 (audio "bass mod")         1 uF 16V 0603         C77049         GRM188R71C105KE15D           C52, C53 (audio "bass mod")         10 µF 10V 0603         C77049         GRM188R71C105KE15D           C52, C53 (audio "bass mod")         100 µF 6.3V D=5mm         C336192 or         EEE0JA101WR           C59 (C34 only for rev E)         100 µF 6.3V 1206         C412252         GRM188R71C105KE15D           C70         22 uF 10V 0603         C84419         GRM188R61A226ME15D           C74         22 u µF 6.3V 1206         C412252         GRM31CR60227ME11L           R3         18 k0 0603         C137655         RC0603R-0718KL           R11         47 kΩ 100mW 0603         C137773         RC0603RR-074KL           R25 <td></td> <td>10 nF 50V 0603</td> <td>C100042</td> <td>CC0603KRX7R9BB103</td>		10 nF 50V 0603	C100042	CC0603KRX7R9BB103
C24, C28, C43, C75, C82         100 nF 100V 0603         C161117         GCJ188R72A104KA01D           (C33 only for rev E)         10 μF 10V 0603         C77044         GRM188R61A106KE69D           C37, C81         10 μF 10V 0603         C2176758         GCM188SC2A151FA16D           C50, C51         390 nF 16V 0603         C437460         GCM188R71C105KE15D           C52, C53 (audio "bass mod")         10 μF 10V 0603         C77044         GRM188R71C105KE15D           C52, C53 (audio "bass mod")         1 uF 16V 0603         C77049         GRM188R71C105KE15D           C59, C54, C72, C73, C78,         1 uF 16V 0603         C77049         GRM188R71C105KE15D           C70, C71         100 μF 63V D=5mm         C336192 or         EEE0JA101WR           C70, C71         100 μF 63V D=5mm         C336192 or         EEE0JA101WR           C74         22 uF 10V 0603         C84419         GRM188R61A226ME15D           C74         22 uF 6.3V 1206         C412252         GRM31CR601227ME11L           R3         18 K0 0603         C137655         RC0603R-0718KL           R11         47 kD 100mW 0603         C135759         RC0603R-0718KL           R25         1.5 MΩ 100mW 0603         C137773         RC0603R-073K6L           R27         100 Ω 100mW 0603         <	C16, C17, C39, C40	1 uF 0603	C126631	GRT188R61H105KE13D
(C33 only for rev E)  C37, C81  10 μF 10V 0603  C77044  GRM188R61A106KE69D  C547  150 pF 0603  C2176758  GCM188SC2A151FA16D  C50, C51  390 nF 16V 0603  C77049  GRM188R71C105KE15D  C52, C53 (audio 'bass mod')  10 μF 10V 0603  C77049  GRM188R71C105KE15D  C52, C53 (audio 'bass mod')  10 μF 10V 0603  C77049  GRM188R71C105KE15D  C54, C55, C56, C72, C73, C78,  C95 (C34 only for rev E)  C70, C71  100 μF 6.3V D=5mm  100 μF 6.3V 100 0603  C84419  GRM188R61A106KE69D  C74  22 uF 10V 0603  C84419  GRM188R61A226ME15D  C74  22 uF 10V 0603  C84419  GRM188R61A226ME15D  C74  22 uF 10V 0603  C84419  GRM188R61A20EME15D  C74  22 uF 10V 0603  C84419  GRM188R61A20EME15D  C74  22 uF 10V 0603  C84419  GRM188R61A20EME15D  C74  22 uF 10V 0603  C84119  GRM188R71C105KE15D  C840  C95 (C34 only for rev E)  C74  22 uF 10V 0603  C84119  GRM188R71C105KE15D  C840  C840	C5, C6, C7, C79	100 pF 50V 0603	C14665	CC0603JRNPO9BN101
C47         150 pF 0603         C2176758         GCM188SC2A151FA16D           C50, C51         390 nF 16V 0603         C437460         GCM188R71C139X4AS5D           C52, C53 (normal audio bass)         10 μF 10V 0603         C77044         GRM188R71C105KE15D           C52, C53 (audio "bass mod")         10 μF 10V 0603         C77049         GRM188R71C105KE15D           C54, C55, C56, C72, C73, C78, C95 (C34 only for rev E)         100 μF 6.3V D=5mm         C336192 or         EEE0JA101WR           C70, C71         100 μF 6.3V D=5mm         C322271         T4918107K010AT           C76         22 u F 10V 0603         C84419         GRM188R61A226ME15D           C74         220 μF 6.3V 1206         C412252         GRM318R61A226ME15D           C74         220 μF 6.3V 1206         C412252         GRM318R661A226ME15D           R3         18 kΩ 0603         C137655         RC0603JR-0718KL           R11         47 kΩ 100mW 0603         C105579         RC0603JR-071MSL           R26         1.5 MQ 100 mW 0603         C137753         RC0603FR-071MSL           R27         100 Ω 100mW 0603         C114627         RC0603FR-071MSL           R28         1.5 MQ 100 mW 0603         C114627         RC0603FR-0710ML           R53, R54         510 Ω 100mW 0603         <		100 nF 100V 0603	C161117	GCJ188R72A104KA01D
C50, C51         390 nF 16V 0603         C437460         GCM188R71C394KA55D           C52, C53 (normal audio bass)         1 uF 16V 0603         C77049         GRM188R71C105KE15D           C52, C53 (audio "bass mod")         10 μF 10V 0603         C77049         GRM188R61A106KE69D           C54, C55, C56, C72, C73, C78, C95 (C34 only for rev E)         1 uF 16V 0603         C77049         GRM188R71C105KE15D           C70, C71         100 μF 6:3V D=5mm (100 μF 6:0V (tantallum)         C122271         T491B107K010AT           C76         22 uF 10V 0603         C84419         GRM188R61A226ME15D           C74         220 μF 6:3V 1206         C412252         GRM31CR601227ME11L           R3         18 kΩ 0603         C137655         RC0603JR-0718KL           R11         47 kΩ 100mW 0603         C137655         RC0603JR-0718KL           R11         47 kΩ 100mW 0603         C137773         RC0603FR-074KL           R25         1.5 MΩ 100 mW 0603         C137773         RC0603FR-071M5L           R26         5.6 kΩ 100 mW 0603         C114627         RC0603FR-071MDL           R27         100 Ω 100mW 0603         C137754         RC0603FR-0710NL           R30, R51         510 Ω 100mW 0603         C137754         RC0603FR-0720KL           R52, R54         20 kΩ 100	C37, C81	10 μF 10V 0603	C77044	GRM188R61A106KE69D
C52, C53 (normal audio bass)         1 uF 16V 0603         C77049         GRM188R71C105KE15D GRM188R61A106KE69D           C52, C53 (audio "bass mod")         1 uF 16V 0603         C77044         GRM188R61A106KE69D           C54, C55, C56, C72, C73, C78, C95 (C34 only for rev E)         10 uF 610V (tantallum)         C77049         GRM188R71C105KE15D           C70, C71         100 μF 63V D=5mm         C13229 or         EEE0JA101WR           C76         22 uF 10V 0603         C84419         GRM188R61A226ME15D           C74         220 μF 6.3V 1206         C412252         GRM31CR60J227ME11L           R3         18 K0 0603         C137655         RC0603R-0748KL           R11         47 k0 100mW 0603         C137575         RC0603FR-074KL           R25         1.5 MΩ 100 mW 0603         C137773         RC0603FR-075MEL           R26         5.6 k0 100 mW 0603         C114627         RC0603FR-075MEL           R27         100 Ω 100mW 0603         C137754         RC0603FR-0720RL           EM9         Filter 6003         C78748         BLM18BD102SN1D           R52, R54         20 kΩ 100mW 0603         C114670         RC0603FR-0710RL           R52, R54         20 kΩ 100mW 0603         C15575         RC0603FR-0720KL           R53, R56 (for 1 Watt speaker) <td< td=""><td></td><td></td><td>C2176758</td><td>GCM1885C2A151FA16D</td></td<>			C2176758	GCM1885C2A151FA16D
C52, C53 (audio "bass mod")         10 μF 10V 0603         C77044         GRM188R61A106KE69D           C54, C55, C56, C72, C73, C78, C95 (C34 only for rev E)         1 uF 16V 0603         C77049         GRM188R71C105KE15D           C70, C71         100 μF 6.3V D=5mm 100 μF 610V (tantallum)         C122271         T491B107K010AT           C76         22 uF 10V 0603         C84419         GRM188R61A226ME15D           C74         220 μF 6.3V 1206         C412252         GRM31CR60J227ME11L           R3         18 kΩ 0603         C137655         RC0603R-0747KL           R11         47 kΩ 100mW 0603         C105579         RC0603R-0747KL           R25         1.5 MΩ 100 mW 0603         C137773         RC0603FR-071M5L           R26         5.6 kΩ 100 mW 0603         C114627         RC0603FR-071M5L           R27         100 Ω 100mW 0603         C137754         RC0603FR-0710ORL           RA3-RA3D         270 Ω 100 mW 0603         C137754         RC0603FR-0720RL           EM9         Filter 6003         C78748         BLM18BD102SN1D           R50, R51         510 Ω 100mW 0603         C114670         RC0603FR-07510RL           R52, R54         20 kΩ 100mW 0603         C15575         RC0603FR-07510RL           R53, R56 (for 1 Watt speaker)         75.5 kΩ 100mW 0	C50, C51	390 nF 16V 0603	C437460	GCM188R71C394KA55D
C54, C55, C56, C72, C73, C78, C95 (C34 only for rev E)         1 UF 16V 0603         C77049         GRM188R71C105KE15D           C70, C71         100 μF 6.3V D=5mm 100 μF 6.10V (tantallum)         C122271         T491B107K010AT           C76         22 UF 10V 0603         C84419         GRM188R61A226ME15D           C74         220 μF 6.3V 1206         C412252         GRM31CR60/227/ME11L           R3         18 kΩ 0603         C137655         RC0603JR-074KL           R25         1.5 MΩ 100 mW 0603         C105579         RC0603FR-0747KL           R26         5.6 kΩ 100 mW 0603         C114627         RC0603FR-071MSL           R27         100 Ω 100mW 0603         C135754         RC0603FR-071MSL           R27         100 Ω 100mW 0603         C137774         RC0603FR-071ORL           RM9         Filter 6003         C78748         BLM18BD102SN1D           R50, R51         510 Ω 100mW 0603         C114670         RC0603FR-07510RL           R52, R54         20 kΩ 100mW 0603         C16575         RC0603FR-07510RL           R53, R56 (for 1 Watt speaker)         10 kΩ 100mW 0603         C28527         RC0603FR-0710KL           R70         732 kΩ 100mW 0603         C22648         RC0603FR-0710KL           R70         732 kΩ 100mW 0603         C22548 <td></td> <td>1 uF 16V 0603</td> <td>C77049</td> <td>GRM188R71C105KE15D</td>		1 uF 16V 0603	C77049	GRM188R71C105KE15D
C95 (C34 only for rev E)         C70, C71         100 μF 6.3V D=5mm 100 μF 610V (tantallum)         C336192 or C122271         EEEUJA101WR T491B107K010AT           C76         22 uF 10V 0603         C84419         GRM188R61A226ME15D           C74         220 μF 6.3V 1206         C412252         GRM31CR60J227ME11L           R3         18 kΩ 0603         C137655         RC0603IR-0718KL           R11         47 kΩ 100mW 0603         C135779         RC0603FR-074KL           R25         1.5 MΩ 100 mW 0603         C135779         RC0603FR-074KL           R26         5.6 kΩ 100 mW 0603         C114627         RC0603FR-0740RL           R27         100 Ω 100mW 0603         C105588         RC0603FR-075K6L           R27         100 Ω 100mW 0603         C137754         RC0603FR-0750RL           R43         Filter 6003         C78748         BLM18BD102SN1D           R50, R51         510 Ω 100mW 0603         C114670         RC0603FR-07510RL           R52, R54         20 kΩ 100mW 0603         C361257         RC0603FR-07510RL           R53, R56 (for 1 Watt speaker)         25.5 kΩ 100mW 0603         C361257         RC0603FR-0710KL           R70         732 kΩ 100mW 0603         C14675         RC0603FR-0710KL           R80, R82, R83         1 kΩ 100mW 0603 <td></td> <td>10 μF 10V 0603</td> <td>C77044</td> <td>GRM188R61A106KE69D</td>		10 μF 10V 0603	C77044	GRM188R61A106KE69D
100 μF 610V (tantallum)		1 uF 16V 0603	C77049	GRM188R71C105KE15D
C76         22 uF 10V 0603         C84419         GRM188R61A226ME15D           C74         220 μF 6.3V 1206         C412252         GRM31CR601227ME11L           R3         18 kΩ 0603         C137655         RC0603JR-0718KL           R11         47 kΩ 100mW 0603         C105579         RC0603JR-0747KL           R25         1.5 MΩ 100 mW 0603         C137773         RC0603FR-0747KL           R26         5.6 kΩ 100 mW 0603         C114627         RC0603FR-075K6L           R27         100 Ω 100mW 0603         C105588         RC0603FR-075K6L           RA3A-RA3D         270 Ω 100 mW 0603         C137754         RC0603FR-07100RL           RBM9         Filter 6003         C78748         BLM18BD102SN1D           R50, R51         510 Ω 100mW 0603         C114670         RC0603FR-07510RL           R52, R54         20 kΩ 100mW 0603         C105575         RC0603FR-07510RL           R53, R56 (for 1 Watt speaker)         10 kΩ 100mW 0603         C861257         RT0603BRD0725K5L           R53, R56 (for DMG normal         10 kΩ 100mW 0603         C24675         RC0603FR-0710KL           R70         732 kΩ 100mW 0603         C224042         AC0603FR-0710KL           R70         732 kΩ 100mW 0603         C22548         RC0603FR-0710KL	C70, C71	100 μF 6.3V D=5mm	C336192 or	EEE0JA101WR
C74         220 μF 6.3V 1206         C412252         GRM31CR60J227ME11L           R3         18 kΩ 0603         C137655         RC0603JR-0718KL           R11         47 kΩ 100mW 0603         C105579         RC0603FR-0747KL           R25         1.5 MΩ 100 mW 0603         C137773         RC0603FR-071M5L           R26         5.6 kΩ 100 mW 0603         C114627         RC0603FR-075K6L           R27         100 Ω 100mW 0603         C105588         RC0603FR-07100RL           RA3A-RA3D         270 Ω 100 mW 0603         C137754         RC0603FR-07270RL           EM9         Filter 6003         C78748         BLM18BD102SN1D           R50, R51         510 Ω 100mW 0603         C114670         RC0603FR-07510RL           R52, R54         20 kΩ 100mW 0603         C105575         RC0603FR-07510RL           R53, R56 (for 1 Watt speaker)         25.5 kΩ 100mW 0603         C861257         RT0603BRD0725KSL           R53, R56 (for DMG normal         10 kΩ 100mW 0603         C28022         RC0603FR-0710KL           870         732 kΩ 100mW 0603         C226042         AC0603FR-0710KL           R70         732 kΩ 100mW 0603         C22548         RC0603FR-071KL           R81 (for 0.5A charging)         2 kΩ 100mW 0603         C22548         RC0603FR-071K		100 μF 610V (tantallum)	C122271	T491B107K010AT
R3         18 kΩ 0603         C137655         RC0603JR-0718KL           R11         47 kΩ 100mW 0603         C105579         RC0603FR-0747KL           R25         1.5 MΩ 100 mW 0603         C137773         RC0603FR-0747KL           R26         5.6 kΩ 100 mW 0603         C114627         RC0603FR-075K6L           R27         100 Ω 100mW 0603         C195588         RC0603FR-0750RL           RA3A-RA3D         270 Ω 100 mW 0603         C137754         RC0603FR-07270RL           EM9         Filter 6003         C78748         BLM18BD102SN1D           R50, R51         510 Ω 100mW 0603         C114670         RC0603FR-07510RL           R52, R54         20 kΩ 100mW 0603         C105575         RC0603FR-0710RL           R53, R56 (for 1 Watt speaker)         25.5 kΩ 100mW 0603         C861257         RT0603BRD0725K5L           R53, R56 (for DMG normal         10 kΩ 100mW 0603         C861257         RC0603FR-0710KL           speaker)         732 kΩ 100mW 0603         C228042         AC0603FR-0710KL           R70         732 kΩ 100mW 0603         C22548         RC0603FR-0710KL           R81 (for 0.5A charging)         2 kΩ 100mW 0603         C22548         RC0603FR-0710KL           R81 (for 0.5A charging)         1.21 kΩ 100mW 0603         C705737	C76	22 uF 10V 0603	C84419	GRM188R61A226ME15D
R11       47 kΩ 100mW 0603       C105579       RC0603FR-0747KL         R25       1.5 MΩ 100 mW 0603       C137773       RC0603FR-071M5L         R26       5.6 kΩ 100 mW 0603       C114627       RC0603FR-075K6L         R27       100 Ω 100mW 0603       C105588       RC0603FR-075K6L         RA3A-RA3D       270 Ω 100 mW 0603       C137754       RC0603FR-07270RL         EM9       Filter 6003       C78748       BLM18BD102SM1D         R50, R51       510 Ω 100mW 0603       C114670       RC0603FR-07510RL         R52, R54       20 kΩ 100mW 0603       C105575       RC0603FR-0720KL         R53, R56 (for 1 Watt speaker)       25.5 kΩ 100mW 0603       C861257       RT0603BRD0725K5L         R53, R56 (for DMG normal       10 kΩ 100mW 0603       C98220       RC0603FR-0710KL         870       732 kΩ 100mW 0603       C14675       RC0603FR-0710KL         R70       732 kΩ 100mW 0603       C228042       AC0603FR-0710KL         R81 (for 0.5A charging)       2 kΩ 100mW 0603       C22548       RC0603FR-071KL         R81 (for 0.5A charging)       2 kΩ 100mW 0603       C227483       AC0603FR-071KL         R84       100 Ω 100mW 0603       C105588       RC0603FR-0710ORL         R84       100 Ω 100mW 0603       C	C74	220 μF 6.3V 1206	C412252	GRM31CR60J227ME11L
R25       1.5 MΩ 100 mW 0603       C137773       RC0603FR-071M5L         R26       5.6 kΩ 100 mW 0603       C114627       RC0603FR-075K6L         R27       100 Ω 100mW 0603       C105588       RC0603FR-07100RL         RA3A-RA3D       270 Ω 100 mW 0603       C137754       RC0603FR-07270RL         EM9       Filter 6003       C78748       BLM18BD102SN1D         R50, R51       510 Ω 100mW 0603       C114670       RC0603FR-07510RL         R52, R54       20 kΩ 100mW 0603       C105575       RC0603FR-07510RL         R53, R56 (for 1 Watt speaker)       25.5 kΩ 100mW 0603       C861257       RT0603BRD0725K5L         R53, R56 (for DMG normal       10 kΩ 100mW 0603       C98220       RC0603FR-0710KL         speaker)       R55, R71       100 kΩ 100mW 0603       C228042       AC0603FR-0710KL         R70       732 kΩ 100mW 0603       C22548       RC0603FR-071KL         R81 (for 0.5A charging)       2 kΩ 100mW 0603       C227483       AC0603DR-072KL         R81 (for 0.5A charging)       1.21 kΩ 100mW 0603       C227483       AC0603DR-072KL         R81 (for 0.9A charging)       1.21 kΩ 100mW 0603       C254527       BLA31AG601SN4D         B1       Ferrite Bead 1206       C524527       BLA31AG601SN4D <td< td=""><td>R3</td><td>18 kΩ 0603</td><td>C137655</td><td>RC0603JR-0718KL</td></td<>	R3	18 kΩ 0603	C137655	RC0603JR-0718KL
R26         5.6 kΩ 100 mW 0603         C114627         RC0603FR-075K6L           R27         100 Ω 100mW 0603         C105588         RC0603FR-07100RL           RA3A-RA3D         270 Ω 100 mW 0603         C137754         RC0603FR-07270RL           EM9         Filter 6003         C78748         BLM18BD102SN1D           R50, R51         510 Ω 100mW 0603         C114670         RC0603FR-07510RL           R52, R54         20 kΩ 100mW 0603         C105575         RC0603FR-0720KL           R53, R56 (for 1 Watt speaker)         25.5 kΩ 100mW 0603         C861257         RT0603BRD0725K5L           R53, R56 (for DMG normal         10 kΩ 100mW 0603         C98220         RC0603FR-0710KL           speaker)         R55, R71         100 kΩ 100mW 0603         C14675         RC0603FR-07100KL           R70         732 kΩ 100mW 0603         C228042         AC0603FR-0710KL           R81 (for 0.5A charging)         2 kΩ 100mW 0603         C227483         AC0603PR-0772KL           R81 (for 0.9A charging)         1.21 kΩ 100mW 0603         C705737         RT0603BRD071K21L           R84         100 Ω 100mW 0603         C105588         RC0603FR-07100RL           FB1         Ferrite Bead 1206         C524527         BLA31AG601SN4D           D1         30V 2A SBD Dio				RC0603FR-0747KL
R27         100 Ω 100mW 0603         C105588         RC0603FR-07100RL           RA3A-RA3D         270 Ω 100 mW 0603         C137754         RC0603FR-07270RL           EM9         Filter 6003         C78748         BLM18BD102SN1D           R50, R51         510 Ω 100mW 0603         C114670         RC0603FR-07510RL           R52, R54         20 kΩ 100mW 0603         C36575         RC0603FR-0720KL           R53, R56 (for 1 Watt speaker)         25.5 kΩ 100mW 0603         C861257         RT0603BRD0725K5L           R53, R56 (for DMG normal speaker)         10 kΩ 100mW 0603         C98220         RC0603FR-0710KL           R55, R71         100 kΩ 100mW 0603         C14675         RC0603FR-0710KL           R70         732 kΩ 100mW 0603         C228042         AC0603FR-0713ZKL           R81 (for 0.5A charging)         2 kΩ 100mW 0603         C22548         RC0603FR-071KL           R81 (for 0.5A charging)         2 kΩ 100mW 0603         C227483         AC0603DR-072KL           R81 (for 0.9A charging)         1.21 kΩ 100mW 0603         C705737         RT0603BRD071K21L           R84         100 Ω 100mW 0603         C105588         RC0603FR-07100RL           FB1         Ferrite Bead 1206         C524527         BLA31AG601SN4D           D1         30V 2A SBD Diode </td <td></td> <td></td> <td></td> <td></td>				
RA3A-RA3D       270 Ω 100 mW 0603       C137754       RC0603FR-07270RL         EM9       Filter 6003       C78748       BLM18BD102SN1D         R50, R51       510 Ω 100mW 0603       C114670       RC0603FR-07510RL         R52, R54       20 kΩ 100mW 0603       C105575       RC0603FR-0720KL         R53, R56 (for 1 Watt speaker)       25.5 kΩ 100mW 0603       C861257       RT0603BRD0725K5L         R53, R56 (for DMG normal speaker)       10 kΩ 100mW 0603       C98220       RC0603FR-0710KL         R55, R71       100 kΩ 100mW 0603       C14675       RC0603FR-07100KL         R70       732 kΩ 100mW 0603       C22548       RC0603FR-0710KL         R81 (for 0.5A charging)       2 kΩ 100mW 0603       C22548       RC0603FR-071KL         R81 (for 0.9A charging)       1.21 kΩ 100mW 0603       C705737       RT0603BRD071K21L         R84       100 Ω 100mW 0603       C105588       RC0603FR-07100RL         FB1       Ferrite Bead 1206       C524527       BLA31AG601SN4D         D1       30V 2A SBD Diode       C12889       B230A-13-F         D2       100mA Switching Diode       C11695       1SS355VMTE-17         F1, F2       6V 2A fuse 0603       C2757930       BSMD0603L-200         Q1       30V 4.2A P channel mo <td></td> <td></td> <td>_</td> <td></td>			_	
EM9         Filter 6003         C78748         BLM18BD102SN1D           R50, R51         510 Ω 100mW 0603         C114670         RC0603FR-07510RL           R52, R54         20 kΩ 100mW 0603         C105575         RC0603FR-0720KL           R53, R56 (for 1 Watt speaker)         25.5 kΩ 100mW 0603         C861257         RT0603BRD0725K5L           R53, R56 (for DMG normal speaker)         10 kΩ 100mW 0603         C98220         RC0603FR-0710KL           R70         732 kΩ 100mW 0603         C228042         AC0603FR-07100KL           R80, R82, R83         1 kΩ 100mW 0603         C22548         RC0603FR-071KL           R81 (for 0.5A charging)         2 kΩ 100mW 0603         C227483         AC0603FR-071KL           R81 (for 0.9A charging)         1.21 kΩ 100mW 0603         C705737         RT0603BRD071K21L           R84         100 Ω 100mW 0603         C105588         RC0603FR-07100RL           FB1         Ferrite Bead 1206         C524527         BLA31AG601SN4D           D1         30V 2A SBD Diode         C11889         B230A-13-F           D2         100mA Switching Diode         C111695         1SS355VMTE-17           F1, F2         6V 2A fuse 0603         C2757930         BSMD0603L-200           Q1         30V 4.2A P channel mo         C30686				
R50, R51       510 Ω 100mW 0603       C114670       RC0603FR-07510RL         R52, R54       20 kΩ 100mW 0603       C105575       RC0603FR-0720KL         R53, R56 (for 1 Watt speaker)       25.5 kΩ 100mW 0603       C861257       RT0603BRD0725K5L         R53, R56 (for DMG normal speaker)       10 kΩ 100mW 0603       C98220       RC0603FR-0710KL         R55, R71       100 kΩ 100mW 0603       C228042       AC0603FR-07100KL         R70       732 kΩ 100mW 0603       C22548       RC0603FR-071KL         R81 (for 0.5A charging)       2 kΩ 100mW 0603       C227483       AC0603PR-071KL         R81 (for 0.9A charging)       1.21 kΩ 100mW 0603       C705737       RT0603BRD071K21L         R84       100 Ω 100mW 0603       C105588       RC0603FR-07100RL         FB1       Ferrite Bead 1206       C524527       BLA31AG601SN4D         D1       30V 2A SBD Diode       C12889       B230A-13-F         D2       100mA Switching Diode       C111695       1S5355VMTE-17         F1, F2       6V 2A fuse 0603       C2757930       BSMD0603L-200         Q1       30V 4.2A P channel mo       C306862       AO3401A         Q2       20V 6A mosfet       C16052       FS8205A         U6       Audio Amp VSSOP-10 Amps       C				
R52, R54       20 kΩ 100mW 0603       C105575       RC0603FR-0720KL         R53, R56 (for 1 Watt speaker)       25.5 kΩ 100mW 0603       C861257       RT0603BRD0725K5L         R53, R56 (for DMG normal       10 kΩ 100mW 0603       C98220       RC0603FR-0710KL         speaker)       R55, R71       100 kΩ 100mW 0603       C14675       RC0603FR-07100KL         R70       732 kΩ 100mW 0603       C228042       AC0603FR-07732KL         R80, R82, R83       1 kΩ 100mW 0603       C22548       RC0603FR-071KL         R81 (for 0.5A charging)       2 kΩ 100mW 0603       C227483       AC0603DR-072KL         R81 (for 0.9A charging)       1.21 kΩ 100mW 0603       C705737       RT0603BRD071K21L         R84       100 Ω 100mW 0603       C105588       RC0603FR-07100RL         FB1       Ferrite Bead 1206       C524527       BLA31AG601SN4D         D1       30V 2A SBD Diode       C12889       B230A-13-F         D2       100mA Switching Diode       C111695       1SS355VMTE-17         F1, F2       6V 2A fuse 0603       C2757930       BSMD0603L-200         Q1       30V 4.2A P channel mo       C306862       AO3401A         Q2       20V 6A mosfet       C16052       FS8205A         U6       Audio Amp VSSOP-10 Amp			+	
R53, R56 (for 1 Watt speaker)       25.5 kΩ 100mW 0603       C861257       RT0603BRD0725K5L         R53, R56 (for DMG normal speaker)       10 kΩ 100mW 0603       C98220       RC0603FR-0710KL         R55, R71       100 kΩ 100mW 0603       C14675       RC0603FR-07100KL         R70       732 kΩ 100mW 0603       C228042       AC0603FR-07732KL         R80, R82, R83       1 kΩ 100mW 0603       C22548       RC0603FR-071KL         R81 (for 0.5A charging)       2 kΩ 100mW 0603       C227483       AC0603DR-072KL         R81 (for 0.9A charging)       1.21 kΩ 100mW 0603       C705737       RT0603BRD071K21L         R84       100 Ω 100mW 0603       C105588       RC0603FR-07100RL         FB1       Ferrite Bead 1206       C524527       BLA31AG601SN4D         D1       30V 2A SBD Diode       C12889       B230A-13-F         D2       100mA Switching Diode       C111695       1SS355VMTE-17         F1, F2       6V 2A fuse 0603       C2757930       BSMD0603L-200         Q1       30V 4.2A P channel mo       C306862       A03401A         Q2       20V 6A mosfet       C16052       FS8205A         U6       Audio Amp VSSOP-10 Amps       C2872995       LM4853MM/NOPB         U7       Supervisory IC SOT23-5 <td< td=""><td></td><td></td><td></td><td></td></td<>				
R53, R56 (for DMG normal speaker)       10 kΩ 100mW 0603       C98220       RC0603FR-0710KL         R55, R71       100 kΩ 100mW 0603       C14675       RC0603FR-07100KL         R70       732 kΩ 100mW 0603       C228042       AC0603FR-07732KL         R80, R82, R83       1 kΩ 100mW 0603       C22548       RC0603FR-071KL         R81 (for 0.5A charging)       2 kΩ 100mW 0603       C227483       AC0603DR-072KL         R81 (for 0.9A charging)       1.21 kΩ 100mW 0603       C705737       RT0603BRD071K21L         R84       100 Ω 100mW 0603       C105588       RC0603FR-07100RL         FB1       Ferrite Bead 1206       C524527       BLA31AG601SN4D         D1       30V 2A SBD Diode       C12889       B230A-13-F         D2       100mA Switching Diode       C111695       1SS355VMTE-17         F1, F2       6V 2A fuse 0603       C2757930       BSMD0603L-200         Q1       30V 4.2A P channel mo       C306862       AO3401A         Q2       20V 6A mosfet       C16052       FS8205A         U6       Audio Amp VSSOP-10 Amps       C2872995       LM4853MM/NOPB         U7       Supervisory IC SOT23-5       C2866251       TPS3840DL37 or 40         U11 (only rev E)       LDO       Grab from rev E GBC PCB </td <td></td> <td></td> <td></td> <td></td>				
R55, R71       100 kΩ 100mW 0603       C14675       RC0603FR-07100KL         R70       732 kΩ 100mW 0603       C228042       AC0603FR-07732KL         R80, R82, R83       1 kΩ 100mW 0603       C22548       RC0603FR-071KL         R81 (for 0.5A charging)       2 kΩ 100mW 0603       C227483       AC0603DR-072KL         R81 (for 0.9A charging)       1.21 kΩ 100mW 0603       C705737       RT0603BRD071K21L         R84       100 Ω 100mW 0603       C105588       RC0603FR-07100RL         FB1       Ferrite Bead 1206       C524527       BLA31AG601SN4D         D1       30V 2A SBD Diode       C12889       B230A-13-F         D2       100mA Switching Diode       C111695       1SS355VMTE-17         F1, F2       6V 2A fuse 0603       C2757930       BSMD0603L-200         Q1       30V 4.2A P channel mo       C306862       AO3401A         Q2       20V 6A mosfet       C16052       FS8205A         U6       Audio Amp VSSOP-10 Amps       C2872995       LM4853MM/NOPB         U7       Supervisory IC SOT23-5       C2866251       TPS3840DL35 or TPS3840DL37 or 40         U11 (only rev E)       LDO       Grab from rev E GBC PCB	R53, R56 (for DMG normal			
R70       732 kΩ 100mW 0603       C228042       AC0603FR-07732KL         R80, R82, R83       1 kΩ 100mW 0603       C22548       RC0603FR-071KL         R81 (for 0.5A charging)       2 kΩ 100mW 0603       C227483       AC0603DR-072KL         R81 (for 0.9A charging)       1.21 kΩ 100mW 0603       C705737       RT0603BRD071K21L         R84       100 Ω 100mW 0603       C105588       RC0603FR-07100RL         FB1       Ferrite Bead 1206       C524527       BLA31AG601SN4D         D1       30V 2A SBD Diode       C12889       B230A-13-F         D2       100mA Switching Diode       C111695       1SS355VMTE-17         F1, F2       6V 2A fuse 0603       C2757930       BSMD0603L-200         Q1       30V 4.2A P channel mo       C306862       AO3401A         Q2       20V 6A mosfet       C16052       FS8205A         U6       Audio Amp VSSOP-10 Amps       C2872995       LM4853MM/NOPB         U7       Supervisory IC SOT23-5       C2866251       TPS3840DL35 or TPS3840DL35 or TPS3840DL37 or 40         U11 (only rev E)       LDO       Grab from rev E GBC PCB		100 kO 100mW 0603	C14675	RC0603FR-07100KI
R80, R82, R83       1 kΩ 100mW 0603       C22548       RC0603FR-071KL         R81 (for 0.5A charging)       2 kΩ 100mW 0603       C227483       AC0603DR-072KL         R81 (for 0.9A charging)       1.21 kΩ 100mW 0603       C705737       RT0603BRD071K21L         R84       100 Ω 100mW 0603       C105588       RC0603FR-07100RL         FB1       Ferrite Bead 1206       C524527       BLA31AG601SN4D         D1       30V 2A SBD Diode       C12889       B230A-13-F         D2       100mA Switching Diode       C111695       1SS355VMTE-17         F1, F2       6V 2A fuse 0603       C2757930       BSMD0603L-200         Q1       30V 4.2A P channel mo       C306862       AO3401A         Q2       20V 6A mosfet       C16052       FS8205A         U6       Audio Amp VSSOP-10 Amps       C2872995       LM4853MM/NOPB         U7       Supervisory IC SOT23-5       C2866251       TPS3840DL35 or TPS3840DL37 or 40         U11 (only rev E)       LDO       Grab from rev E GBC PCB	· · · · · · · · · · · · · · · · · · ·			
R81 (for 0.5A charging)       2 kΩ 100mW 0603       C227483       AC0603DR-072KL         R81 (for 0.9A charging)       1.21 kΩ 100mW 0603       C705737       RT0603BRD071K21L         R84       100 Ω 100mW 0603       C105588       RC0603FR-07100RL         FB1       Ferrite Bead 1206       C524527       BLA31AG601SN4D         D1       30V 2A SBD Diode       C12889       B230A-13-F         D2       100mA Switching Diode       C111695       1SS355VMTE-17         F1, F2       6V 2A fuse 0603       C2757930       BSMD0603L-200         Q1       30V 4.2A P channel mo       C306862       AO3401A         Q2       20V 6A mosfet       C16052       FS8205A         U6       Audio Amp VSSOP-10 Amps       C2872995       LM4853MM/NOPB         U7       Supervisory IC SOT23-5       C2866251       TPS3840DL35 or TPS3840DL37 or 40         U11 (only rev E)       LDO       Grab from rev E GBC PCB			_	
R81 (for 0.9A charging)         1.21 kΩ 100mW 0603         C705737         RT0603BRD071K21L           R84         100 Ω 100mW 0603         C105588         RC0603FR-07100RL           FB1         Ferrite Bead 1206         C524527         BLA31AG601SN4D           D1         30V 2A SBD Diode         C12889         B230A-13-F           D2         100mA Switching Diode         C111695         1SS355VMTE-17           F1, F2         6V 2A fuse 0603         C2757930         BSMD0603L-200           Q1         30V 4.2A P channel mo         C306862         AO3401A           Q2         20V 6A mosfet         C16052         FS8205A           U6         Audio Amp VSSOP-10 Amps         C2872995         LM4853MM/NOPB           U7         Supervisory IC SOT23-5         C2866251         TPS3840DL37 or 40           U11 (only rev E)         LDO         Grab from rev E GBC PCB	, ,			
R84         100 Ω 100mW 0603         C105588         RC0603FR-07100RL           FB1         Ferrite Bead 1206         C524527         BLA31AG601SN4D           D1         30V 2A SBD Diode         C12889         B230A-13-F           D2         100mA Switching Diode         C111695         1SS355VMTE-17           F1, F2         6V 2A fuse 0603         C2757930         BSMD0603L-200           Q1         30V 4.2A P channel mo         C306862         AO3401A           Q2         20V 6A mosfet         C16052         FS8205A           U6         Audio Amp VSSOP-10 Amps         C2872995         LM4853MM/NOPB           U7         Supervisory IC SOT23-5         C2866251         TPS3840DL35 or TPS3840DL37 or 40           U11 (only rev E)         LDO         Grab from rev E GBC PCB				
FB1         Ferrite Bead 1206         C524527         BLA31AG601SN4D           D1         30V 2A SBD Diode         C12889         B230A-13-F           D2         100mA Switching Diode         C111695         1SS355VMTE-17           F1, F2         6V 2A fuse 0603         C2757930         BSMD0603L-200           Q1         30V 4.2A P channel mo         C306862         AO3401A           Q2         20V 6A mosfet         C16052         FS8205A           U6         Audio Amp VSSOP-10 Amps         C2872995         LM4853MM/NOPB           U7         Supervisory IC SOT23-5         C2866251         TPS3840DL35 or TPS3840DL37 or 40           U11 (only rev E)         LDO         Grab from rev E GBC PCB	R84	100 Ω 100mW 0603	C105588	RC0603FR-07100RL
D2         100mA Switching Diode         C111695         1SS355VMTE-17           F1, F2         6V 2A fuse 0603         C2757930         BSMD0603L-200           Q1         30V 4.2A P channel mo         C306862         AO3401A           Q2         20V 6A mosfet         C16052         FS8205A           U6         Audio Amp VSSOP-10 Amps         C2872995         LM4853MM/NOPB           U7         Supervisory IC SOT23-5         C2866251         TPS3840DL35 or TPS3840DL37 or 40           U11 (only rev E)         LDO         Grab from rev E GBC PCB	FB1			BLA31AG601SN4D
F1, F2         6V 2A fuse 0603         C2757930         BSMD0603L-200           Q1         30V 4.2A P channel mo         C306862         AO3401A           Q2         20V 6A mosfet         C16052         FS8205A           U6         Audio Amp VSSOP-10 Amps         C2872995         LM4853MM/NOPB           U7         Supervisory IC SOT23-5         C2866251         TPS3840DL35 or TPS3840DL37 or 40           U11 (only rev E)         LDO         Grab from rev E GBC PCB	D1	30V 2A SBD Diode	C12889	B230A-13-F
Q1         30V 4.2A P channel mo         C306862         AO3401A           Q2         20V 6A mosfet         C16052         FS8205A           U6         Audio Amp VSSOP-10 Amps         C2872995         LM4853MM/NOPB           U7         Supervisory IC SOT23-5         C2866251         TPS3840DL35 or TPS3840DL37 or 40           U11 (only rev E)         LDO         Grab from rev E GBC PCB	D2	100mA Switching Diode	C111695	1SS355VMTE-17
Q2         20V 6A mosfet         C16052         FS8205A           U6         Audio Amp VSSOP-10 Amps         C2872995         LM4853MM/NOPB           U7         Supervisory IC SOT23-5         C2866251         TPS3840DL35 or TPS3840DL37 or 40           U11 (only rev E)         LDO         Grab from rev E GBC PCB	F1, F2	6V 2A fuse 0603	C2757930	BSMD0603L-200
U6         Audio Amp VSSOP-10 Amps         C2872995         LM4853MM/NOPB           U7         Supervisory IC SOT23-5         C2866251         TPS3840DL35 or TPS3840DL37 or 40           U11 (only rev E)         LDO         Grab from rev E GBC PCB	Q1	30V 4.2A P channel mo	C306862	AO3401A
U7         Supervisory IC SOT23-5         C2866251         TPS3840DL35 or TPS3840DL37 or 40           U11 (only rev E)         LDO         Grab from rev E GBC PCB	Q2	20V 6A mosfet	C16052	FS8205A
U11 (only rev E)         LDO         Grab from rev E GBC PCB	U6	Audio Amp VSSOP-10 Amps	C2872995	LM4853MM/NOPB
U11 (only rev E) LDO Grab from rev E GBC PCB	U7	Supervisory IC SOT23-5	C2866251	
	U11 (only rev E)	LDO		•
		SOT23-6 Battery	C18164398	

U20	TP4056	C16581	TP4056-42-ESOP8
U30	boost converter SOT-563	C919459	TPS61023DRLR
U40	LDO 5v ultra-low noise	C2864504	TPS7A2050PDBVR
U50	3.3v LD0 SOT23-5	C892187	NCP161ASN330T1G
U50 cheaper alternative	3.3v LD0 SOT23-5	C3021095	TPNCP161ASN330T1G
L1	6A 2.2uH Power Inductor	C142092	MHCI06018-2R2M-R8A
L2	200mA 5.6uH ±5% 1210 indu	C295106	NLV32T-5R6J-EF
LED GREEN	25mA 0603	C965805	XL-1608SYGC-06
LED RED	20mA 0603	C125099	LTST-C191KRKT
X1 Quartz Crystal	8.388608 MHz 7.5X5-4-PAD		Grab from the GCB PCB or
			buy LFXTAL003157Bulk
Potentiometer	10k 5pin		(Aliexpress) or grab from
			the DMG PCB
RAM	TSOP-28		LH52256CVTXIZ
DC Jack 3.5 mm x 1.35 mm	2A 24V	C381119	DC-002-2.0A-1.3
J1	50 pin FFC connector		62684-502100AHLF
31	So pin i i e connector		or FFC2B17-50-T
Power Switch	1212 pin 2P4T	C2939338	SK24D02G4 or grab from
		0233333	the DMG PCB
2 pin conn	Ph 2.0	C16965	PH-2AW
5 pin conn	Ph 2.0	C10402	PH-5AW
L1, L2, L3	420mA 33uH 1210	C2047418	BRL3225T330K
Audio Jack	420117 (33011 1210	C397344	PJ-3655-SMT
R1, R2	1 kΩ 125mW 0805	C95781	RC0805FR-071KL
C1, C2, C3	100 μF 6.3V 4mm SMD	C401761 or	EEEFTOJ101AR
C1, C2, C3	100 μF 6.3V tantallum	C79109	6TPE100MAZB
Audio speaker	1w 8Ω	C73103	(Retrosix)
2 pin conn	Ph 2.0	C16965	PH-2AW
5 pin conn	Ph 2.0	C10402	PH-5AW
Wheel IPS	Surface Mount Navigation		COM-08184
Wileerirg	Switch		COM-00104
C1, C2, C6, C7, C8, C24	100 nF 0603	C161115	GCJ188R71H104KA12D
C4, C5	220 pF 100V 0603	C388907	GCM1885C2A221JA16D
C9, C10	27 pF 50V 0603	C162215	GRM1885C2A2213A10D
R1, R14	10 kΩ 100 mW 0603	C102213	RC0603FR-0710KL
R22-R29 (only if 0603 LED are	See DMGC original project	C98220	RC0003FR-0710RL
used)	See Divide original project		
	18 kΩ 100 mV 0603	C114610	RC0603FR-0718KL
R2, R6, R7			
R3, R5, R11, R12	402 kΩ 100 mV 0603	C874662	RC0603FR-07402KL
R4	100 Ω 100mW 0603	C105588	RC0603FR-07100RL
R8, R10	100 kΩ 100 mW 0603	C14675	RC0603FR-07100KL
R9	510 Ω 100 mW 0603	C114670	RC0603FR-07510RL
R13	15 kΩ 100 mW 0603	C114661	RC0603FR-0715KL
	2 11 1/1 1 1	6207052	NAULI COA ACRTC
POWER LED RED	3 mm red led (cloudy len)	C397053	MHL3014SRTS
RGB LED x 8	RBG 2020		WS2812
RGB LED x 8 Q1	RBG 2020 N-channel MOSFET	C350313	WS2812 2N7002
RGB LED x 8 Q1 U1	RBG 2020 N-channel MOSFET Op-amp		WS2812 2N7002 LMV358
RGB LED x 8 Q1 U1 U2	RBG 2020 N-channel MOSFET Op-amp Microcontroller	C350313	WS2812 2N7002 LMV358 ATTINY85V-10SU
RGB LED x 8 Q1 U1	RBG 2020 N-channel MOSFET Op-amp	C350313	WS2812 2N7002 LMV358 ATTINY85V-10SU 62684-502100AHLF
RGB LED x 8 Q1 U1 U2 J1, J2	RBG 2020 N-channel MOSFET Op-amp Microcontroller 50 pin FFC connector	C350313 C2943013	WS2812 2N7002 LMV358 ATTINY85V-10SU 62684-502100AHLF or FFC2B17-50-T
RGB LED x 8 Q1 U1 U2 J1, J2 J3	RBG 2020 N-channel MOSFET Op-amp Microcontroller	C350313	WS2812 2N7002 LMV358 ATTINY85V-10SU 62684-502100AHLF or FFC2B17-50-T THD0509-06CL-GF
RGB LED x 8 Q1 U1 U2 J1, J2 J3 J4 (Optional for assembly, only helpful for programming the	RBG 2020 N-channel MOSFET Op-amp Microcontroller 50 pin FFC connector	C350313 C2943013	WS2812 2N7002 LMV358 ATTINY85V-10SU 62684-502100AHLF or FFC2B17-50-T
RGB LED x 8 Q1 U1 U2 J1, J2 J3 J4 (Optional for assembly, only helpful for programming the ATTINY)	RBG 2020  N-channel MOSFET  Op-amp  Microcontroller  50 pin FFC connector  6 pin FFC connector	C350313 C2943013	WS2812 2N7002 LMV358 ATTINY85V-10SU 62684-502100AHLF or FFC2B17-50-T THD0509-06CL-GF TSM-107-01-T-SH
RGB LED x 8 Q1 U1 U2 J1, J2 J3 J4 (Optional for assembly, only helpful for programming the ATTINY) FFC cable	RBG 2020 N-channel MOSFET Op-amp Microcontroller 50 pin FFC connector 6 pin FFC connector	C350313 C2943013	WS2812 2N7002 LMV358 ATTINY85V-10SU 62684-502100AHLF or FFC2B17-50-T THD0509-06CL-GF TSM-107-01-T-SH
RGB LED x 8 Q1 U1 U2 J1, J2 J4 (Optional for assembly, only helpful for programming the ATTINY)	RBG 2020  N-channel MOSFET  Op-amp  Microcontroller  50 pin FFC connector  6 pin FFC connector	C350313 C2943013 C283134	WS2812 2N7002 LMV358 ATTINY85V-10SU 62684-502100AHLF or FFC2B17-50-T THD0509-06CL-GF TSM-107-01-T-SH  0151660539 SKRRABE010
RGB LED x 8 Q1 U1 U2 J1, J2 J3 J4 (Optional for assembly, only helpful for programming the ATTINY) FFC cable Tactile switch (D-PAD. A, B) x 6	RBG 2020 N-channel MOSFET Op-amp Microcontroller 50 pin FFC connector 6 pin FFC connector  Flat Flexible Cable 7mm 0.6mm Round Button	C283134  C125046 C97437	WS2812 2N7002 LMV358 ATTINY85V-10SU 62684-502100AHLF or FFC2B17-50-T THD0509-06CL-GF TSM-107-01-T-SH  0151660539 SKRRABE010 SKRRAAE010
RGB LED x 8 Q1 U1 U2 J1, J2 J3 J4 (Optional for assembly, only helpful for programming the ATTINY) FFC cable	RBG 2020 N-channel MOSFET Op-amp Microcontroller 50 pin FFC connector 6 pin FFC connector	C350313 C2943013 C283134	WS2812 2N7002 LMV358 ATTINY85V-10SU 62684-502100AHLF or FFC2B17-50-T THD0509-06CL-GF TSM-107-01-T-SH  0151660539 SKRRABE010

				OSD connector
J1	6 pin FFC connector	C283134	THD0509-06CL-GF	
cable	6 pin 0.5mm pitch length 5cm	C6575033	HC-FFC05-6P-50-B-02	
				Audio connector
R2, R3	4.7 kΩ 100mW 0603	C99782	RC0603FR-074K7L	
(R1 and R4 must be empty)				
CN1	Type-C SMD USB Connector	C2689969	TYPE-C-31-M-29	
2 pin conn	Ph 2.0 housing	C10408	PH-2Y	
5 pin conn	Ph 2.0 housing	C10411	PH-5Y	
-		·		TOR CABLES

This is a DIY project for electronic enthusiasts. For this reason, I am not responsible for any damage incurred while attempting this project or after completion of the project. You alone accept all risk since you are 100% liable for damage to yourself or your property.