VIS GAMEBOY DMGC v3.0 and v3.1 BOM

COMPONENT	DESCRIPTION	LCSC CODE	Mfr. Part #
Link port			Grab from DMG PCB or
•			from the DMG-07
Power Switch	1212 pin 2P4T	C2939338	SK24D02G4 or grab from
	·		the DMG PCB
Slot cartdridge	32 pin		(Aliexpress) or grab from
			the DMG PCB
C1A, C1B, C1C	100 μF 6.3V 1206	C77085 or	GRM31CR60J107ME39L
	100 μF 10V 1206	C312983	GRM31CR61A107ME05L
C1	18 pF 100V 0603	C913624	GCM1885C2A180JA16D
C2	27 pF 50V 0603	C162215	GRM1885C1H270FA01D
C4	22 pF 0603	C408549	GCM1885C2A220JA16D
C9, C10, C29, C33, C41, C45	10 nF 50V 0603	C100042	CC0603KRX7R9BB103
(C35, C48, C49 only for rev E)			
C16, C17, C39, C40	1 uF 0603	C126631	GRT188R61H105KE13D
C5, C6, C7, C79	100 pF 50V 0603	C14665	CC0603JRNPO9BN101
C24, C28, C43, C75, C82	100 nF 100V 0603	C161117	GCJ188R72A104KA01D
(C33 only for rev E)			
C37, C81	10 μF 10V 0603	C77044	GRM188R61A106KE69D
C47	150 pF 0603	C2176758	GCM1885C2A151FA16D
C50, C51	390 nF 16V 0603	C437460	GCM188R71C394KA55D
C52, C53, C54, C55, C56, C72,	1 uF 16V 0603	C77049	GRM188R71C105KE15D
C73, C78, C95			
(C34 only for rev E)			
C70, C71	100 μF 6.3V D=5mm	C336192	EEE0JA101WR
C76	22 uF 10V 0603	C84419	GRM188R61A226ME15D
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-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	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	20V Schottky Barrier Diodes	C552826	PMEG2010EJ,115
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
<u>.</u>	Supervisory to 30123-3	C2000231	or TPS3840DL37 or 40
U11 (only rev E)	LDO		Grab from rev E GBC PCB
U10	SOT23-6 Battery	C18164398	DW01A
U20	TP4056	C16581	TP4056-42-ESOP8
020	174030	CT020T	174030-42-E3UF0

IPSBOARD

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.