

VIS GAMEBOY DMGC BOM

COMPONENT	DESCRIPTION	LCSC CODE	Mfr. Part #
C1 (electrolytic)	100 μ F 6.3V 5mm	C336192	EEE0JA101WR
C3, C4 (electrolytic)	1 μ F 50V SMD 4mm	C401834	EEHC1H1R0R (alternative 865230640005)
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
C16, C17, C39, C40	1 uF 0603	C126631	GRT188R61H105KE13D
C5, C6, C7	100 pF 50V 0603	C14665	CC0603JRNPO9BN101
C24, C28, C43	100 nF 100V 0603	C161117	GCJ188R72A104KA01D
C37	10 μ F 10V 0805	C117956	GRM21BR71A106KA73L
C47	150 pF 0603	C2176758	GCM1885C2A151FA16D
R3	18 k Ω 0603	C137655	RC0603JR-0718KL
R5, R6	510 Ω 125 mW 0805	C228886	AC0805FR-07510RL
R10	100 k Ω 125 mW 0805	C96346	RC0805FR-07100KL
R11	47 k Ω 125 mW 0805	C126351	RC0805FR-0747KL
R25	1.5 M Ω 100 mW 0603	C137773	RC0603FR-071M5L
R26	5.6 k Ω 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
FB1	Ferrite Bead 1206	C524527	BLA31AG601SN4D
D1	30V 2A SBD Diode	C12889	B230A-13-F
F1, F2	6V 2A fuse 0603	C2757930	BSMD0603L-200
Q1	30V 4.2A P channel mo	C306862	AO3401A
U4	LD0 SOT23-5	C892187	NCP161ASN330T1G
U6	Supervisory IC SOT23-5	C2866251	TPS3840DL35 or TPS3840DL37 or 40
X1 Quartz Crystal	8.388608 MHz 7.5X5-4-PAD		
Potentiometer	10k 5pin		(Aliexpress)
RAM	TSOP-28		LH52256CVTXIZ
DC Jack	2.5x0.7mm 2.5A 24V	C480365	DC-011
USB-C PD adapter			(Aliexpress)
J1	50 pin FFC connector		62684-502100AHLF or FFC2B17-50-T
SHUT AMP SWITCH	Surface Mount DPDT	C97434	SSSS820101
Power Switch	1212 pin 2P4T	C2939338	SK24D02G4
2 pin conn	Ph 2.0	C16965	PH-2AW
5 pin conn	Ph 2.0	C10402	PH-5AW
Slot cartdridge	32 pin		(Aliexpress)
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C1, C2	390 nF 50V 0805	C1854267	CC0805KKX7R9BB394
C3, C4, C5	1 μ F 16V 0805	C527996	GRM21BB11C105KA01L
C6, C7, C8	100 μ F 6.3V 4mm SMD	C401761	EEFT0J101AR
R1, R3	20 k Ω 0805	C114566	RC0805FR-0720KL
R2, R4	30 k Ω 0805	C126352	RC0805FR-0730KL
R2, R4 original speaker	10 k Ω 0805	C723404	RC0805FR-7W10KL
R5	100 k Ω 250 mW 0805	C723424	RC0805FR-7W100KL
R6, R7	1 k Ω 125mW 0805	C95781	RC0805FR-071KL
L1, L2, L3	420mA 33uH 1210	C2047418	BRL3225T330K
Audio Jack		C397344	PJ-3655-SMT
U1	Audio Amp VSSOP-10 Amps	C2872995	LM4853MM/NOPB
Audio speaker	1w 8 Ω		(Retrosix)
Pro-sound jack		C2939197	PJ-392M
2 pin conn	Ph 2.0	C16965	PH-2AW
5 pin conn	Ph 2.0	C10402	PH-5AW

MAINBOARD

AUDIOBOARD

POWERBOARD

IPSBOARD

FOR CABLES

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C1, C3	22 μ F 10V 1206	C5672	CL31A226KPHNNNE
C2	10 μ F 10V 0805	C469539	GRM219R61A106KE44D
C5,	100 nF 50 V 0805	C77082	GRM21BR71H104KA01L
C6, C7	1 μ F 16V 0805	C527996	GRM21BB11C105KA01L
R2, R3, R5, R6	1 k Ω 100mW 0603	C22548	RC0603FR-071KL
R4A	1.21 k Ω 100mW 0603	C705737	RT0603BRD071K21L
R4B	2 k Ω 100mW 0603	C227483	AC0603DR-072KL
R8	7.5 k Ω 100mW 0603	C144113	AF0603FR-077K5L
R9	100 Ω 100mW 0603	C105588	RC0603FR-07100RL
L1	22 μ H	C169385	SWRB1205S-220MT
U1	DW01A		DW01A (Aliexpress)
U2	MT368	C84817	MT368
U4	LDO 5v ultra-low noise	C2864504	TPS7A2050PDBVR
U5	TP4056	C16581	TP4056-42-ESOP8
Q1	20V 6A MOSFET	C16052	FS8205A
D1	40V 3A SBD Diode	C60396	SS34F
0.5/1A switch	300mA SPDT	C109335	SSSS811101
LED GREEN	25mA 0603	C965805	XL-1608SYGC-06
LED RED	20mA 0603	C125099	LTST-C191KRKT
2 pin conn	Ph 2.0	C16965	PH-2AW
3 pin conn	Ph 2.0	C10400	PH-3AW
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Wheel IPS	Surface Mount Navigation Switch		COM-08184
C1, C2, C6, C7, C8, C24	100 nF 0603	C161115	GCJ188R71H104KA12D
C4, C5	220 pF 100V 0603	C388907	GCM1885C2A221JA16D
R1, R14	10 k Ω 100 mW 0603	C98220	RC0603FR-0710KL
R22-R29 (only if 0603 LED are used)	See DMGC original project		
R2, R6, R7	18 k Ω 100 mV 0603	C114610	RC0603FR-0718KL
R3, R5, R11, R12	402 k Ω 100 mV 0603	C874662	RC0603FR-07402KL
R4	100 Ω 100mW 0603	C105588	RC0603FR-07100RL
R8, R10	100 k Ω 100 mW 0603	C14675	RC0603FR-07100KL
R9	510 Ω 100 mW 0603	C114670	RC0603FR-07510RL
R13	15 k Ω 100 mW 0603	C114661	RC0603FR-0715KL
POWER LED RED	3 mm red led		151033RS03000
RGB LED	RBG 2020		WS2812
Q1	N-channel MOSFET	C350313	2N7002
U1	Op-amp	C2943013	LMV358
U2	Microcontroller		ATTINY85V-10SU
J1, J2	50 pin FFC connector		62684-502100AHLF or FFC2B17-50-T
J3 (Optional for assembly, only helpful for programming the ATTINY)			TSM-107-01-T-SH
FFC cable	Flat Flexible Cable		0151660539
Tactile switch	7mm 0.6mm Round Button	C97437	SKRRAAE010
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2 pin conn	Ph 2.0 housing	C10408	PH-2Y
3 pin conn	Ph 2.0 housing	C10409	PH-3Y
5 pin conn	Ph 2.0 housing	C10411	PH-5Y