

GS1-D v1.1.1 BOM

 these are included in the partial DIY kit
[Blue parts](#) are on the upper control board.

Value	Count	Location	Mouser	Alternatives	Notes	
Resistors						
5% Carbon 1/4W						
100R	1	R22	Search "CFR 100ohm 1/4w" etc			
220R	1	R4				
1K	5	R1,R32,R14,R15,R33				
3K3	1	R7				
4K7	2	R2,R5				
		R11,R12,R16,R17,R18,R26,R27,R28				
10K	13	R6,R19,R20,R21,R29				
15K	2	R10,R13				
22K	1	R9				
82K	1	R8				
100K	4	R3,R23,R25,R30				
1M	2	R24,R31				
Capacitors						
MLCC						
10n	1	C305	mlcc leaded 0.01uf		2.5mm leg spacing	
100n	8	C5,C6,C7,C8,C13,C20,C303,C304	mlcc leaded 0.1uf		2.5mm leg spacing	
Polyester (Nichicon QYX)						
1n	1	C19	qyx 1nf 50v		5mm leg spacing	
2.2n	3	C9,C10,C16	qyx 2.2nf 50v		5mm leg spacing	
10n	5	C11,C15,C17,C18,C23	qyx 10nf 50v		5mm leg spacing	
47n	1	C14	qyx 47nf 50v		5mm leg spacing	
Polybox						
1uF	2	C21,C22	80-R82DC4100CK60K	5mm leg spacing, no taller than 10mm		

Electrolytic

0.33u/25	1 C302	0.47uf if no 0.33uf	Low profile, but normal 11mm will fit laying
10u/16	5 C1,C12,C15,C17,C18		Low profile, but normal 11mm will fit laying
47u/25	4 C2,C3,C300,C301		Low profile, but normal 11mm will fit laying
10u/25 BP	3 C4	UVP1E100MDD1TD	BI-POLAR!!!

Diodes

1N5817	2 D1,D2	511-1N5817	
1N4148	2 D3,D4		
3MM LED	1 D5		Blue

IC

PT2399	1 DD1		Discontinued
78L05	1 IC1	511-L78L05ABZ	
TL072	3 IC2,IC3,IC4	TL074IP	Or your fav equivalent, RC4558, LM358 etc

Transistors

2SC945P	2 Q1,Q2	NOS rare part	2SC1815,2SC2603
2SK30A	1 Q3	NOS rare part	

These are provided in the partial kit option.

Misc

PJ301M	2 U1,U2	Thonk etc	Thonkiconn
2P2T	1 SW1	Thonk etc	Mini size 2P2T switch - can have large pins
ON-ON	1 SW2	612-200MSP1T1B1M2RE	Sub-mini on-on switch
PWR	1	Thonk cheaper etc	10pin euro power header or 2x5 pin header
B10K	3 VR1,VR2,VR4	Thonk etc	9mm Alpha
B50K	1 VR5	Thonk etc	9mm Alpha
B250K	1 VR3	Thonk etc	9mm Alpha
2x3	1 Male header		2x3 male header strip
2x4	1 Male header		2x4 male header strip
1x4	1 Male header		1x4 male header strip
2x3	1 Female header		2x3 female header strip
2x4	1 Female header		2x4 female header strip
1x4	1 Female header		1x4 female header strip

11mm
3mm screw

4 standoff
8