

ID	Value 1	Value 2	Description	Package	Qty	# Farnell	# Mouser	# Digikey	# TME	# Other	High Quality & High Price
SHIGA CD TRANSPORT - BOM[1]											
Capacitors											
C1, C14, C23, C29, C59[2]	10nF	50v	chip ceramic capacitor	1206	5	1186193	77-VJ1206Y103KXAAC	311-1174-1-ND	C1206C103K5RAC		C1206H103J1GACTU
C2, C27, C51, C67	10µF	16v	electrolytic capacitor, THT	Ø4mm	4	1823702	871-B41002A4106M000	P14482-ND	TC-10/16		647-PLF1E100MCL2
C35, C48, C52	10µF	10v	electrolytic capacitor, THT, Oscon	Ø6mm	3	N.A.	647-PLF1E100MCL2	493-4574-1-ND	TC-10/16		647-PLF1E100MCL2
C3, C18, C24	47nF	50v	chip ceramic capacitor	1206	3	1759359	77-VJ1206V473MXAPBC	311-1178-6-ND	CL31B473KBCNNNC		1826329
C4, C7, C15, C42, C12, C44, C46, C53, C54, C56, C61, C60, C49, C55	100nF	50v	chip ceramic capacitor	1206	14	2070499	80-C1206C104Z5V	399-1249-1-ND	CL31B104KBCNNNC		182632
C5, C39	33nF	50v	chip ceramic capacitor	1206	2	1164007	140-CC502B333K-RC	311-1177-1-ND	CL31B333KBCNNNC		153558
C6, C47	330pF	50v	chip ceramic capacitor	1206	2	1759330	80-C1206C331K5GACTM	311-1166-1-ND	CL31C331JBCNNNC		598-MC12FA331J-F
C8[3]	0.1µF	10v	tantalum/silver-mica/polypropylene capacitor	see pcb	1	1457568	74-173D50V0.1	718-1450-1-ND	TC-0.1/35	VISROD-72206 [4]	150D104X0020A2
C9, C16, C25, C34	3,3nF	50v	chip ceramic capacitor	1206	4	1759343	77-VJ1206Y332JXAAC	45-2332-1-ND	CL31C332JBFNNNE		153556
C11[5]	1nF	500v	mica capacitor[6]	5750	1	1167860	598-MC22FA102J-TF	338-1129-ND	N.A.		
C17, C66[7]	1nF	50v	chip ceramic capacitor	1206	2	1671442	80-C1206C102K5R7210	311-1170-1-ND	CL31C102JBCNNNC		153556
C19	47µF	16v	electrolytic capacitor, THT	Ø4mm	1	1822555	667-EEU-FC1C470	P5137-ND	TC-47/16		661-PSA10VB47M
C21	100nF	63v	polyester capacitor, THT	2.5 - 5 mm	1				R82DC3100DQ50K		
C36	4.7µF	10v	electrolytic capacitor, THT	Ø4mm	1	1281822	647-UMA1C4R7MCD2	338-2395-ND	TC-4.7/16		
C20, C32	100µF	16v	electrolytic capacitor, THT	Ø6mm	2	1822554	667-EEU-FR1C101	399-6103-ND	CE-100/16PHT		ULR100/16
C22	15nF	50n	chip ceramic capacitor	1206	1	1759352	77-VJ1206Y153KXBMT	311-1175-1-ND	J18CL31B153KBCNN		5982-12-500V15-F
C26	6.8nF	50v	chip ceramic capacitor	1206	1	1759348	81-GRM31R71H682KA01D	311-1209-1-ND	CL21B682KBANNNC		1535583
C28, C38	2.2µF	16v	electrolytic capacitor, THT	Ø4mm	2	1899730	667-ECE-A1HK52R2	P971-ND	TC-2.2/25		8126950
C31	1µF	16v	electrolytic capacitor, THT	Ø4mm	1	8126933	539-SN010M025ST	P5174-ND	TC-1/35		5404903
C33, C45	100pF	50v	chip ceramic capacitor	1206	2	1759327	80-C0402C101J5G	311-1161-1-ND	CL31C101JBCNNNC		MC12FA101G-F
C30	0.33µF	10v	electrolytic capacitor, THT	Ø4mm	1	1871013	667-ECE-A1HKAR33	P988-ND	TC-0.33/35		74-150D333X0035A2B
C37	22µF	16v	electrolytic capacitor, THT	Ø4mm	1	8126178	667-ECE-A1EKA220	399-6108-ND	TC-22/16		75-94SP226X0020CBP
C10, C43	220µF	16v	electrolytic capacitor, THT	Ø6mm	2	8126305	661-PSA10VB270M	493-3857-1-ND	GF220/10		661-PSA10VB270M
C40	15pF	50v	chip ceramic capacitor	1206	1	1800827	77-VJ1206A150JXACBC	311-1151-1-ND	CL31C150JBCANNC		
C41	2.2nF	50v	chip ceramic capacitor	1206	1	1759341	77-VJ1206Y222KXAPBC	311-1171-6-ND	CL31B222KBCNNNC		1535555
C13	470µF	16v	electrolytic capacitor, THT	Ø6mm	1	1822607	667-EEU-FR1C471B	P5141-ND	KM470/16		ULR470/16
C50	680pF	50v	chip ceramic capacitor	1206	1	1759335	140-CC502B681K-RC	311-1169-1-ND	CL10B681KB8NNNC		1692304
C57, C58[8]	8pF	50v	chip ceramic capacitor	1206	2	1164024	581-12065A8R0CAT2A	311-1222-1-ND	CL31C8R2JBCNNNC		598-MC12CD080D-F
C62	100nF	50v	polypropylene capacitor	10mm; 15mm	1	1413838	80-R46KI3100JEM1M	495-2319-ND	MKPX2-100NR10		1166887
C63	2200µF	35v	electrolytic capacitor, THT	max Ø16/5 or 7.5mm	1	9692347	871-B41827A7228M000	P5170-ND	KM2200/35		1165609
C64	1000µF	16v	electrolytic capacitor, THT	max Ø16/5 or 7.5mm	1	1144692	871-B41827A4108M000	399-6106-ND	CE-1000/16PHT		ELNA-72691
C65[9]	10nF	100v	capacitor, mica, THT	8.7mm; 10mm; 15mm	1	1264905	598-CD30FD103F03	338-2864-ND	FKP1-10N/400		1264905
Resistors											
R1, R17	27kΩ	0.25w	chip resistor	1206	2	1152870	652-CR1206FX-2702ELF	311-27KERCT-ND	SMD1206-27K-1%		3087013
R2, R42, R52	330Ω	0.25w	chip resistor	1206	3	1540021	652-CR1206JW-331ELF	311-330ERCT-ND	SMD1206-330R		3087724
R3, R29	2.2kΩ	0.25w	chip resistor	1206	2	1534578	652-CR1206FX-2201ELF	311-2.2KERCT-ND	RC1206JR-072K2		1713591
R4, R21	15kΩ	0.25w	chip resistor	1206	3	1570815	652-CR1206JW-153ELF	311-15KERCT-ND	SMD1206-15K		3086227
R5, R18	3.3kΩ	0.25w	chip resistor	1206	2	1540011	652-CR1206FX-3301ELF	311-3.30KFRCT-ND	RC1206JR-073K3		3086069
R6, R56	100Ω	0.25w	chip resistor	1206	2	1799527	652-CR1206FX-1000ELF	311-100ERCT-ND	SMD1206-100R		3085703
R7, R8, R9, R10, R16, R46	100kΩ	0.25w	chip resistor	1206	6	1799525	652-CR1206JW-104ELF	311-100KERCT-ND	RC1206JR-07100K		3086422
R11, R12	180kΩ	0.25w	chip resistor	1206	2	1152732	652-CR1206JW-184ELF	311-180KERCT-ND	RC1206JR-07180K		3089563
R13, R34, R35	150kΩ	0.25w	chip resistor	1206	3	1534577	652-CR1206JW-154ELF	311-150KERCT-ND	SMD1206-150K		3086460
R14, R30, R31, R33, R38, R44, R45, R53	10kΩ	0.25w	chip resistor	1206	8	1872764	652-CR1206-JW-103GLF	311-10KERCT-ND	CRCW120610K0FKT,		3086185
R15[10]	10kΩ	0.25w	chip resistor	1206	1	1872764	652-CR1206-JW-103GLF	311-10KERCT-ND	CRCW120610K0FKT,		3086124
R19, R23, R40[11]	22kΩ	0.25w	chip resistor	1206	2	1534581	652-CR1206FX-2202ELF	311-22KERCT-ND	RC1206JR-0722K		3086264
R20	10Ω	0.25w	chip resistor	1206	1	1653051	652-CR1206-JW-100ELF	311-10ERCT-ND	RC1206JR-0710R		3087542
R22	68kΩ	0.25w	chip resistor	1206	1	1153219	652-CR1206FX-6802ELF	311-68KERCT-ND	RC1206JR-0768K		3086380
R24	1.5kΩ	0.25w	chip resistor	1206	1	1799521	652-CR1206JW-152ELF	311-1.5KERCT-ND	SMD1206-1K5		3085983
R25	33kΩ	0.25w	chip resistor	1206	1	1540020	652-CR1206-JW-333ELF	311-33KERCT-ND	RC1206JR-0733K		3086306
R26, R41, R54	1kΩ	0.25w	chip resistor	1206	3	1632522	652-CR1206FX-1001ELF	311-1.0KERCT-ND	SMD1206-1K		3085946
R27, R28	56kΩ	0.25w	chip resistor	1206	2	1540042	652-CR1206JW-563ELF	311-56KERCT-ND	RC1206JR-0756K		3086367
R32	6.8kΩ	0.25w	chip resistor	1206	1	1540044	652-CR1206FX-6801ELF	311-6.8KERCT-ND	RC1206JR-0768K		3086148
R36	270kΩ	0.25w	chip resistor	1206	1	1152873	652-CR1206JW-274ELF	311-270KERCT-ND	RC1206JR-07270K		3088078
R37	4.7kΩ	0.25w	chip resistor	1206	1	1799531	652-CR1206-JW-472ELF	311-4.7KERCT-ND	RC1206JR-074K7		3086100
R39	12kΩ	0.25w	chip resistor	1206	1	1571705	652-CR1206-FX1202GLF	311-12KERCT-ND	SMD1206-12K-1%		3086203
R43	470RΩ	0.25w	chip resistor	1206	1	1799533	652-CR1206-JW-471GLF	311-470ERCT-ND	RC1206JR-07470R		3085867
R47[12]	47RΩ	0.25w	chip resistor	1206	1	1799532	652-CR1206FX-47R0ELF	311-47ERCT-ND	SMD1206-47R		3085624
R48	75Ω (100Ω)	0.25w	resistor THT	10mm	1	4333962	71-CCF60-75-E3	CMF475HFTR-ND	MF0207FTE-75R		VISHAY-74659
R49	75Ω (300Ω)	0.25w	resistor THT	10mm	1	4333962	71-CCF60-75-E3	CMF475HFTR-ND	MF0207FTE-75R		VISHAY-73797
R50[13]	680Ω	0.25W	chip resistor	1206	1	1158136	652-CR1206FX-6800ELF	311-680ERCT-ND	RC1206JR-07680R		3085909
R51[13]	120Ω	0.25w	chip resistor	1206	1	1518396	652-CR1206JW-121ELF	311-120ERCT-ND	RC1206JR-07120R		3085727
R55	220Ω	0.25W	chip resistor	1206	1	1553304	652-CR1206FX-2200ELF	311-220ERCT-ND	RC1206JR-07220R		3085788
Semiconductors											
D1, D2	MSR860/CS-01060A		Soft recovery power rectifier / Schottky Silicon carbide	TO-220AC	2	1459138	863-MSR860G	MSR860GOS-ND		1864925	DIODES-68247
D3	led		smd chip led, green	1206	1	1226372	604-APTL3216CGCK	160-1169-1-ND	KP-3216SGD		
Q1	2SA608NF		PNP Low-Frequency General-Purpose Amplifier Apps,Sanyo	TO92	1					vicol-audio	vicol-audio
Q2	2SB764		PNP Epitaxial Planar Silicon Transistor, Voltage Regulator, Sanyo	SOT23-3	1					vicol-audio	vicol-audio
Q3	2SA1342		PNP Silicon Epitaxial Planar Transistor for Switching Apps, Sanyo	TO92	1					vicol-audio	
Q4	BC848		NPN, 30 V, 100 mA NPN general-purpose transistor	SOT23-3	1	1907652	771-BC848B215	BC848BLT1GOSCT-ND	BC848B		771-BC848B215
U2	LA6541		4-channel Bridge Driver for Compact Discs, Sanyo	HSOP24	1					vicol-audio	
U1	LA9242		Analog Signal Processor for CD players, Sanyo	QFP80P1720X1720-64M	1					vicol-audio	

1. For infrared remote scroll down at line 105.
2. buy C59 only if you are using XO2 - TentLabs crystal;
3. the board is provisioned to support different types of capacitors. Use the one you prefer
4. partsconnexion
5. optional component
6. Optional component
7. C66 is an alternative to more expensive C65.
Use C66 if you are unable to source C65 - 10nF silver-mica.
8. Buy this components only if you are using XO1 -Citizen CSA-309
9. This is an optional component. Use C66 instead.
10. Changed from 5K6 to 10K
11. R23 changed from 15K to 22K
12. buy this component only if you are using XO2 - TentLabs crystal
13. Use only with LT1086 or LM317
14. U4A is for LT1086 and LM317
U4B is for L7808
15. The board is provisioned to support either of these three regulators. Use the one you prefer.
LT1086 and LM317 must be used with R50 & R51.
16. can be used on main and display board
17. to be used only on main PCB board
18. RS Components
can be used on main and display board
19. Do not mix with Mouser and Digikey part
20. Do not mix with Farnell part
21. L1 to L8 ferites are optional and you can use a 0ohm resistor as well. L8 is needed only if you are using XO2 - TentLabs crystal.
22. used with C57, C58 - 8pF
23. Please note that if you are using a different crystal, you need to ensure proper capacitor load for good operation.
24. C57 and C58 are 18pF
25. C57 and C58 are 8pF
26. alternative to XO1; use this with L8, R47, C59
27. This component is not available in Full Shiga kit due airmail shipping restrictions for batteries.