

ID	Notes	Value 1	Value 2	Description	Package	Qty	# Farnell	# Mouser	# Digikey	# TME	# Other
SHIGA CD TRANSPORT MKII											
Capacitors											
C1, C14, C23, C29, C59	C59 is used only in combination with TentLabs crystal (X02);	10nF	50v	chip ceramic capacitor, NPO	1206	5	1186193	77-VJ1206Y103KXAAC	311-1174-1-ND	C1206C103K5RAC	
C2, C27, C51, C67		10µF	16v	electrolytic capacitor, THT	Ø4mm	4	1823702	871-B41002A4106M000	P14482-ND	TC-10/16	
C48		10µF	10v	electrolytic capacitor, THT, Oscon	Ø6mm	3	N.A.	647-PLF1E100MCL2	493-4574-1-ND	TC-10/16	
C3, C18, C24		47nF	50v	chip ceramic capacitor	1206	3	1759359	77-VJ1206V473MXAPBC	311-1178-6-ND	CL31B473KBCNNNC	
C4, C7, C12, C15, C21, C42, C44, C46, C49, C52, C53, C54, C55, C56, C60, C61		100nF	50v	chip ceramic capacitor	1206	14	2070499	80-C1206C104Z5V	399-1249-1-ND	CL31B104KBCNNNC	
C5, C39		33nF	50v	chip ceramic capacitor	1206	2	1164007	140-CC502B333K-RC	311-1177-1-ND	CL31B333KBCNNNC	
C6, C47		330pF	50v	chip ceramic capacitor	1206	2	1759330	80-C1206C331K5GACTM	311-1166-1-ND	CL31C331JBCNNNC	
C8	the pcb accommodates different types of capacitors. Use the one you prefer but a high quality one!![1]	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[2]
C9, C16, C25, C34		3,3nF	50v	chip ceramic capacitor	1206	4	1759343	77-VJ1206Y332JXAAC	45-2332-1-ND	CL31C332JBFNNNE	
C11	optional component C66 is an alternative to more expensive C65. Use C66 if you are unable to source C65 - 10nF silver-mica.	1nF	500v	use only silver-mica capacitor	5750	1	1167860	598-MC22FA102J-TF	338-1129-ND	N.A.	
C17, C66		1nF	50v	chip ceramic capacitor	1206	2	1671442	80-C1206C102K5R7210	311-1170-1-ND	CL31C102JBCNNNC	
C19		47µF	16v	electrolytic capacitor, THT	Ø4mm	1	1822555	667-EEU-FC1C470	P5137-ND	TC-47/16	
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	
C22		15nF	50n	chip ceramic capacitor	1206	1	1759352	77-VJ1206Y153KXBMT	311-1175-1-ND	J18CL31B153KBCNNNC	
C26		6,8nF	50v	chip ceramic capacitor	1206	1	1759348	81-GRM31R71H682KA01D	311-1209-1-ND	CL21B682KBANNNC	
C28, C38		2,2µF	16v	electrolytic capacitor, THT	Ø4mm	2	1899730	667-ECE-A1HKS2R2	P971-ND	TC-2.2/25	
C31		1µF	16v	electrolytic capacitor, THT	Ø4mm	1	8126933	539-SN010M025ST	P5174-ND	TC-1/35	
C33, C45		100pF	50v	chip ceramic capacitor	1206	2	1759327	80-C0402C101J5G	311-1161-1-ND	CL31C101JBCNNNC	
C30		0,33µF	10v	electrolytic capacitor, THT	Ø4mm	1	1871013	667-ECE-A1HKAR33	P988-ND	TC-0.33/35	
C37		22µF	16v	electrolytic capacitor, THT	Ø4mm	1	8126178	667-ECE-A1EKA220	399-6108-ND	TC-22/16	
C10, C43		220µF	16v	electrolytic capacitor, THT	Ø6mm	1	8126305	661-PSA10VB270M	493-3857-1-ND	GF220/10	
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	
C13		470µF	16v	electrolytic capacitor, THT	Ø6mm	1	1822607	667-EEU-FR1C471B	P5141-ND	KM470/16	
C50		680pF	50v	chip ceramic capacitor	1206	1	1759335	140-CC502B681K-RC	311-1169-1-ND	CL10B681KB8NNNC	
C57, C58	Buy this components only if you are using variant a) for the oscillator	8pF	50v	chip ceramic capacitor	1206	2	1164024	581-12065A8R0CAT2A	311-1222-1-ND	CL31C8R2JBCNNNC	
C62		100nF	50v	polypropylene capacitor	10mm; 15mm	1	1413838	80-R46K13100JEM1M	495-2319-ND	MKPX2-100NR10	
C63		2200µF	35v	electrolytic capacitor, THT	max Ø16/5 or 7.5mm	1	9692347	871-B41827A7228M000	P5170-ND	KM2200/35	
C64		1000µF	16v	electrolytic capacitor, THT	max Ø16/5 or 7.5mm	1	1144692	871-B41827A4108M000	399-6106-ND	CE-1000/16PHT	
C65	This is an optional component. Use C66 instead. Optional parts. use them only with ADP151-2.5 Use only with LT1086 or LM317	10nF	100v	capacitor, mica, THT	8,7mm; 10mm; 15mm	1	1264905	598-CD30FD103F03	338-2864-ND	FKP1-10N/400	
C68, C69		1U	50V	chip ceramic capacitor	1206	2	2341510				
C70		47uF	25V	electrolytic capacitor, THT	Ø10mm	1	2282231				
Resistors											
R1, R17		27kΩ	0,25w	chip resistor	1206	2	1152870	652-CR1206FX-2702ELF	311-27KERCT-ND	SMD1206-27K-1%	
R2, R42, R52		330Ω	0,25w	chip resistor	1206	3	1540021	652-CR1206JW-331ELF	311-330ERCT-ND	SMD1206-330R	
R3, R29		2,2kΩ	0,25w	chip resistor	1206	2	1534578	652-CR1206FX-2201ELF	311-2.2KERCT-ND	RC1206JR-072K2	
R4, R21		15kΩ	0,25w	chip resistor	1206	2	1570815	652-CR1206JW-153ELF	311-15KERCT-ND	SMD1206-15K	
R5, R18		3,3kΩ	0,25w	chip resistor	1206	2	1540011	652-CR1206FX-3301ELF	311-3.30KFRCT-ND	RC1206JR-073K3	
R6, R56		100Ω	0,25w	chip resistor	1206	2	1799527	652-CR1206FX-1000ELF	311-100ERCT-ND	SMD1206-100R	
R7, R8, R9, R10, R16, R46		100kΩ	0,25w	chip resistor	1206	6	1799525	652-CR1206JW-104ELF	311-100KERCT-ND	RC1206JR-07100K	
R11, R12		180kΩ	0,25w	chip resistor	1206	2	1152732	652-CR1206JW-184ELF	311-180KERCT-ND	RC1206JR-07180K	
R13, R34, R35		150kΩ	0,25w	chip resistor	1206	3	1534577	652-CR1206JW-154ELF	311-150KERCT-ND	SMD1206-150K	
R14, R30, R31, R33, R38, R44, R45, R53		10KΩ	0,25w	chip resistor	1206	8	1872764	652-CR1206-JW-103GLF	311-10KERCT-ND	CRCW120610K0FKTABC	
R15		10KΩ	0,25w	chip resistor	1206	1	1872764	652-CR1206-JW-103GLF	311-10KERCT-ND	CRCW120610K0FKTABC	
R19, R23, R40		22kΩ	0,25w	chip resistor	1206	3	1534581	652-CR1206FX-2202ELF	311-22KERCT-ND	RC1206JR-0722K	
R20		10Ω	0,25w	chip resistor	1206	1	1653051	652-CR1206-JW-100ELF	311-10ERCT-ND	RC1206JR-0710R	
R22		68kΩ	0,25w	chip resistor	1206	1	1153219	652-CR1206FX-6802ELF	311-68KERCT-ND	RC1206JR-0768K	
R24		1,5kΩ	0,25w	chip resistor	1206	1	1799521	652-CR1206JW-152ELF	311-1.5KERCT-ND	SMD1206-1K5	
R25		33kΩ	0,25w	chip resistor	1206	1	1540020	652-CR1206-JW-333ELF	311-33KERCT-ND	RC1206JR-0733K	
R26, R41, R54, R65		1kΩ	0,25w	chip resistor	1206	4	1632522	652-CR1206FX-1001ELF	311-1.0KERCT-ND	SMD1206-1K	
R27, R28		56kΩ	0,25w	chip resistor	1206	2	1540042	652-CR1206JW-563ELF	311-56KERCT-ND	RC1206JR-0756K	
R32		6,8kΩ	0,25w	chip resistor	1206	1	1540044	652-CR1206FX-6801ELF	311-6.8KERCT-ND	RC1206JR-076K8	
R36		270kΩ	0,25w	chip resistor	1206	1	1152873	652-CR1206JW-274ELF	311-270KERCT-ND	RC1206JR-07270K	
R37		4,7kΩ	0,25w	chip resistor	1206	1	1799531	652-CR1206-JW-472ELF	311-4.7KERCT-ND	RC1206JR-074K7	
R39		12kΩ	0,25w	chip resistor	1206	1	1571705	652-CR1206-FX1202GLF	311-12KERCT-ND	SMD1206-12K-1%	
R43		470RΩ	0,25w	chip resistor	1206	1	1799533	652-CR1206-JW-471GLF	311-470ERCT-ND	RC1206JR-07470R	
R47	buy this component only if you are using variant b) for the oscillator [X02 - TentLabs crystal]	47RΩ	0,25w	chip resistor	1206	1	1799532	652-CR1206FX-47R0ELF	311-47ERCT-ND	SMD1206-47R	
R48		75Ω (300Ω)	0,25w	resistor THT	10mm	1	4333962	71-CCF60-75-E3	CMF475HFTR-ND	MF0207FTE-75R	

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R49		75Ω (100Ω)	0,25w	resistor THT	10mm	1	4333962	71-CCF60-75-E3	CMF475HFTR-ND	MF0207FTE-75R	
R50	Use only with LT1086 or LM317	680Ω	0,25W	chip resistor	1206	1	1158136	652-CR1206FX-6800ELF	311-680ERCT-ND	RC1206JR-07680R	
R51	Use only with LT1086 or LM317	120Ω	0,25w	chip resistor	1206	1	1518396	652-CR1206JW-121ELF	311-120ERCT-ND	RC1206JR-07120R	
R55		220Ω	0,25W	chip resistor	1206	1	1553304	652-CR1206FX-2200ELF	311-220ERCT-ND	RC1206JR-07220R	
R57		1.2K	0.25W	chip resistor	1206	1	1799534		CR1206-JW-122ELFCT-ND	RC1206JR-071K2	
R58, R59, R61, R62, R63, R64		0Ω	0.25W	chip resistor/ strap	1206	6	1799534		RMCF1206ZTOR00CT-ND	RC1206JR-070R	
R60	Use only with PI spdif voltage divider	125.3Ω				1					
P1	optional part for backlight dimming	500Ω				1				TS53YL500R	
Semiconductors											
D1, D2		MSR860/CS-01060A		Soft recovery power rectifier / Schottky Silicon carbide	TO-220AC	2	1459138	863-MSR860G	MSR860GOS-ND		1864925
D3		led		smd chip led, green	1206	1	1226372	604-APTL3216CGCK	160-1169-1-ND	KP-3216SGD	
Q1	2N4403 default	2SA608NF[3]		PNP Low-Frequency General-Purpose Amplifier Apps,Sanyo	TO92	1					vicol-audio
Q2		2SB764		PNP Epitaxial Planar Silicon Transistor_Voltage Regulator, Sanyo	SOT23-3	1					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	
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
U3		LC78601		Compact Disc Player DSP with Built-in Microcontroller, Sanyo	QFP80P1720X1720-64M	1					vicol-audio
U4A / U4B	U4A is for LT1086 and LM317 U4B is for L7808	LT1086/or LM317/or L7808[4]		3 Terminal Adjustable Regulator	TO-220	1	1206129	511-LM317T	497-1575-5-ND	L7808ABV	
Connectors											
J1		16 pins		Connector FFC, 1mm (optic), straight		1	1835577	649-HLW16S-2C7LF	609-1831-ND	DS1020-04-16BVT1	
(cable from J1 to cd mechanic connector)		1mm		CABLE, FLAT, FFC, 16WAY, 152MM		1	1079972	538-98267-0321	HF16U-06-ND	MX-98267-0321	
J2		6 pins		Connector header, 2mm (Ext power)	father	1	9492500[5]	798-DF3A-6P-2DS10[6]	H3897-ND[6]	N.A.	
(J2)		6 pins		Connector, housing, 2mm	mather	1	3616228[5]	798-DF3-6S-2C[6]	H2087-ND[6]	JST PHR-6	
J3, J9		3 pins		Connector header, 2mm (2xCD Door - main brd & LCD and Commar	father	2	9491910[5]	798-DF3A-3P-2DS[6]	H3894-ND[6]	N.A.	
(J3, J9)		3 pins		Connector, housing, 2mm	mather	2	3616198[5]	798-DF3-3S-2C16[6]	H2084-ND[6]	NINIGI NXG-03	
J4, J10		18 pins		Connector IDC / IDT, 1,27mm (2xLCD - main brd & LCD and comm		2	1865048[7]	538-90584-1318[8]	WM19247-ND[8]	TMM-2-0-18-2	739-1088[9]
(cable from J4 to J10)		25cm		Cable, ribbon, 1,27mm		1				FLC26-20/30	
J5, J6		2 pins		Connector header, 2mm (Dout, +8V)	father	2	9491902[5]	798-DF3A-2P-2DS[6]	H3893-ND[6]	N.A.	
(J5, J6)		2 pins		Connector, housing, 2mm	mather	2	3616186[5]	798-DF3-2S-2C19[6]	H2083-ND[6]	NINIGI NXG-02	
		pin		SPH-002T-P0.5S CONTACT, 0.05-0.22MM		22	1671245			SPH-002T-P0.5S	
J7		3 pins		terminal block		1	2007996	538-39543-0003	A97997-ND	DG300-5.0-3P12	
J8		2 pins		terminal block		1	2007995	538-39543-0002	A97996-ND	DG300-5.0-2P12	
Other											
L1, L2, L3, L4, L5, L8, L9	Instead of ferites you can use a 0ohm resistor as well. L8 is needed only if you are using XO2 - TentLabs crystal.	bead		Ferrite: bead; Imp.@ 100MHz:600R; Mounting: SMD	1206	7	1611982	436-2601-RC	240-2415-1-ND	LCAC-601	
L6, L7		2,2uH		Inductor: ferrite; 2.2uH; 60mA; 600mΩ; SMD	1206	2	1515437	652-CS321613-2R2K	535-11667-1-ND	CL321611T-2R2K	
XO1	used with C57, C58 - 8pF alternative to XO1; use this with L8, R47, C59	16,93MHz		Citizen CSA-309 8PF CYL[10]	3x8.8mm	1	N.A.	695-HC49US-169-U[11]	300-5035-ND[12]	N.A.	
XO2		16,9344MHz		Crystal, Tent Labs		1					Tent Labs
XO3	optional	Plug (male)		Ultra Small Surface Mount Coaxial Connector	3x3.2x1.25mm	1		798-U-FL-R-SMT-110	H11891TR-ND		
IR1		38kHz		integrated IR receiver, 38kHz		1	4913190	782-TSOP4838	751-1384-5-ND	TSOP4838	
LCD				Custom Multiplexed LCD		1					vicol-audio
Sw1, Sw2, Sw3, Sw4, Sw5, Sw6, Sw7				Microswitch, SPST contacts, NO (normal open)	6 x 6 mm	7	3801305	101-0364-EV	EG4375CT-ND	TACTM-69N-F	
Hsk				Heatsink TO220		1	1710603	567-274-2AB	345-1087-ND	HS-502	
SFP101N-16P				CD PICKUP SANYO SFP101N 16PIN		1					vicol-audio
Transformer EU 220V	use trafo for your region	220V primary	20W	Transformer with 220V primary; 2x9V secondary		1	1780882				vicol-audio
Transformer US 110V	use trafo for your region	110V primary	20W	Transformer with 110V primary; 2x9V secondary		1	1780848				vicol-audio
PCB set				Shigaclone PCB set		1					
LT1763 MINI-REG BOARDS											
C71, C72, C73, C74	optional	10nF	50v	chip ceramic capacitor, NPO	1206	4	1186193	77-VJ1206Y103KXAAC	311-1174-1-ND	C1206C103K5RAC	
C75, C76, C77, C78	optional		50v	chip ceramic capacitor	1206	4					
R66, R69, R72, R75	optional	3.77K	0.25W	chip resistor	1206	4	1570828		RHM3.74KAICT-ND	SMD1206-3K74-1%	
R67, R70, R73, R76	optional	1.22k	0.25W	chip resistor	1206	4	2351426		RMCF1206FT1K21CT-ND	CRCW12061K21FKTABC	
R68, R71, R74, R77	optional	270	0.25W	chip resistor	1206	4	2284281		RMCF1206JT270RCT-ND	RC1206JR-07270R	
D4, D5, D6, D7	optional	LED		smd chip led, green	1206	1	1226372	604-APTL3216CGCK	160-1169-1-ND	KP-3216SGD	
U6, U7, U8, U9	optional	LT1763-ADJ		500mA, Low Noise, LDO, Micropower Regulators	SO8	4	1273614		LT1763CS8#PBF-ND	LT1763CS8PBF	
J12, J13, J14, J15	optional	3 pins		Socket; pin strips; female; PIN:3; turned contacts; straight; THT		4			929974E-01-03-ND	ZL307-1X3	
J16, J17, J18, J19	optional	3 pins		Header, 1 row, right angle, 3way		4	1593427		3M9468-ND	ZL211-20KG	
PCB	optional			Shigaclone low noise LDO mini regulator		1					vicol-audio
SHIGA Infrared Remote											
C1		10μF	6v	electrolytic capacitor, THT	Ø5mm	1	9693548	667-ECA-1CM100	P5134-ND		
C2, C3		100pF	50v	chip ceramic capacitor	1206	2	1759327	603-CC126JRNPO9BN101	311-1161-1-ND	CC1206JRNPO9101	
R1		1R	0.25W	chip resistor	1206	1	1865240	652-CR1206-J/-1R0ELF	311-1.0ERCT-ND	RC1206JR-071R	

[illegible]

1. introduceți aici

This capacitor is a critical component. PCB allow you to mount different types.

2. partsconnexion

3. Take care when mounting this part, PCB layout is designed for 2N4403. You need to twist Base with Colector in order to have 2SA608 correctly mounted.

4. For LT1086 and LM317 please see notes for additional required parts.

5. Do not mix with Mouser and Digikey part

6. Do not mix with Farnell part

7. can be used on main and display board

8. to be used only on main PCB board

9. RS Components

can be used on main and display board

10. Please note that if you are using a different crystal, you need to ensure proper capacitor load for good operation.

11. C57 and C58 are 18pF

12. C57 and C58 are 8pF