

OSCILLOSCOPE CRT DRIVER

SKU PCB-0001

PCB COMPONENT LIST

Part	Value	Description	Suggested Part Number
C1	0.001uF	Ceramic disk capacitor, 2KV	Digikey 1252PH-ND
C15	10uF	Electrolytic capacitor, 450V	Digikey 493-1241-ND
C16	1uF	Electrolytic capacitor, 450V	Digikey 493-1237-ND
C17	2.2uF	Electrolytic capacitor, 450V	Digikey 399-6561-ND
C18	2.2uF	Electrolytic capacitor, 450V	Digikey 399-6561-ND
C19	100uF	Electrolytic capacitor, 16V	Digikey399-6601-ND
C20	470uF	Electrolytic capacitor, 16V	Digikey P5141-ND
C21	1000uF	Electrolytic capacitor, 16V	Digikey P5142-ND
C22	470uF	Electrolytic capacitor, 16V	Digikey P5141-ND
D3	1N4007	1KV 1A silicon diode	Digikey 1N4007-TPMSCT-ND
D4	1N4007	1KV 1A silicon diode	Digikey 1N4007-TPMSCT-ND
D5	1N4007	1KV 1A silicon diode	Digikey 1N4007-TPMSCT-ND
D6	1N4007	1KV 1A silicon diode	Digikey 1N4007-TPMSCT-ND
D7	1N4001	50 V 1A silicon diode	Digikey 1N4001-TPMSCT-ND
D8	1N4001	50 V 1A silicon diode	Digikey 1N4001-TPMSCT-ND
IC1	TL082	Dual 3MHz JFET OpAmp	Digikey 296-1781-5-ND
IC4	LM78L05	+5V 100mA voltage regulator	Digikey 497-2952-ND
IC5	LM79L05	-5V 100mA voltage regulator	Digikey 497-2960-ND
R1	1K	1/4 watt resistor	
R2	56K	1/4 watt resistor	
R3	56K	1/4 watt resistor	
R4	4.7K	1/4 watt resistor	
R5	4.7K	1/4 watt resistor	
R6	56K	1/4 watt resistor	
R7	56K	1/4 watt resistor	
R8	4.7K	1/4 watt resistor	
R9	1K	1/4 watt resistor	
R10	10K	1/4 watt resistor	
R11	470K	1/4 watt resistor	
R12	10K	1/4 watt resistor	
R13	10K	Linear potentiometer	Digikey 3306K-103-ND
R14	100K	Linear potentiometer	Digikey 3306K-104-ND
R15	10K	Linear potentiometer	Digikey 3306K-103-ND
R16	100K	Linear potentiometer	Digikey 3306K-104-ND
R17	1M	1/4 watt resistor	
R18	4.7K	1/4 watt resistor	
R19	1K	1/4 watt resistor	
R34	47K	1/4 watt resistor	

PCB COMPONENT LIST (CONTINUED)

Part	Value	Description	Suggested Part Number
R33	1M	Linear potentiometer	Digikey 3306K-105-ND
R35	1M	Linear potentiometer	Digikey 3306K-105-ND
R36	1M	Linear potentiometer	Digikey 3306K-105-ND
R46	47K	1/4 watt resistor	
R47	47K	1/4 watt resistor	
T2	ZTX458	400V 0.5A NPN	Digikey ZTX458-ND
T3	ZTX458	400V 0.5A NPN	Digikey ZTX458-ND
T4	ZTX458	400V 0.5A NPN	Digikey ZTX458-ND
T5	ZTX458	400V 0.5A NPN	Digikey ZTX458-ND
T9	ZTX458	400V 0.5A NPN	Digikey ZTX458-ND

EXTERNAL COMPONENT LIST

Part	Description	Suggested Part Number
TRANSFORMER	Hammond 270X or similar	Digikey 270X-ND
CRT	1 to 3 inch electrostatic CRT	2AP1, 2BP1, 3BP1, 3JP1, 3RP1, or similar

NOTES

1. The X1, X2 and Y1, Y2 plate labels on the PCB are incorrectly swapped relative to XIN and YIN, but this does not affect functionality.

SCHEMATIC

