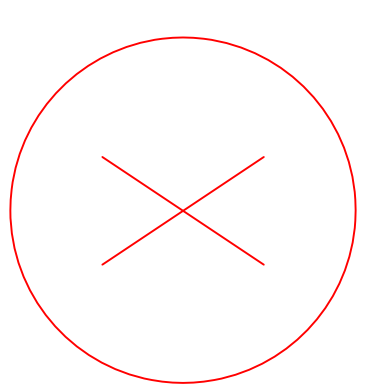


TUBE TESTER 6SN7 SIMULATOR

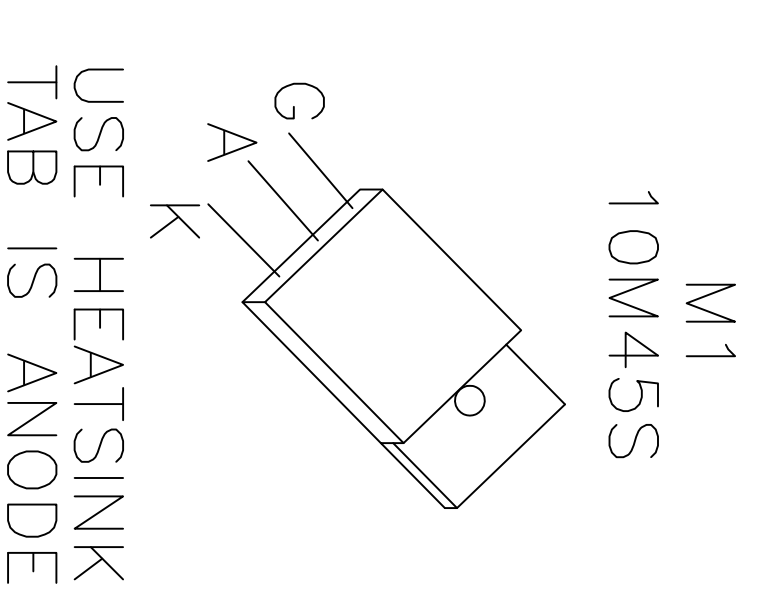
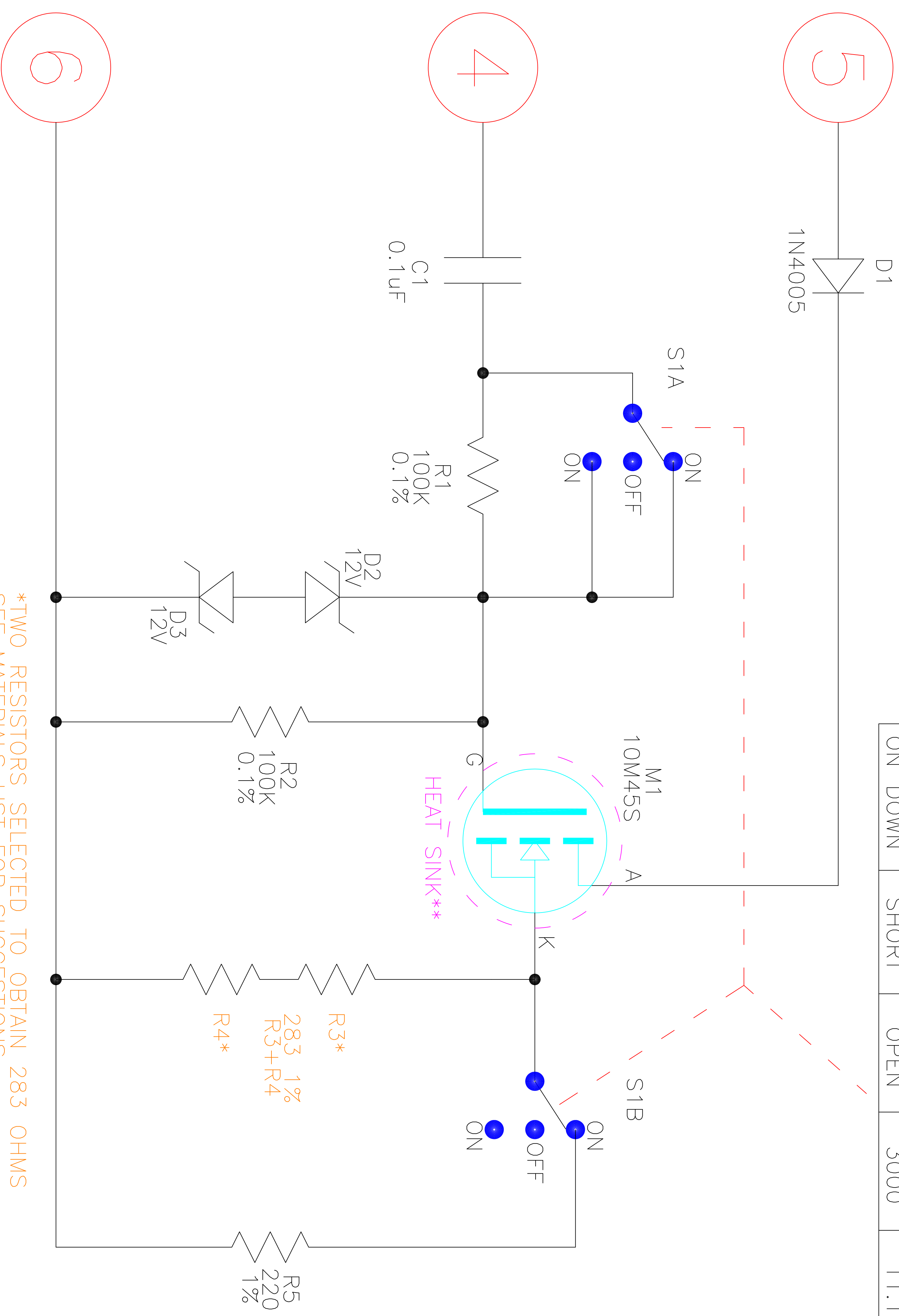
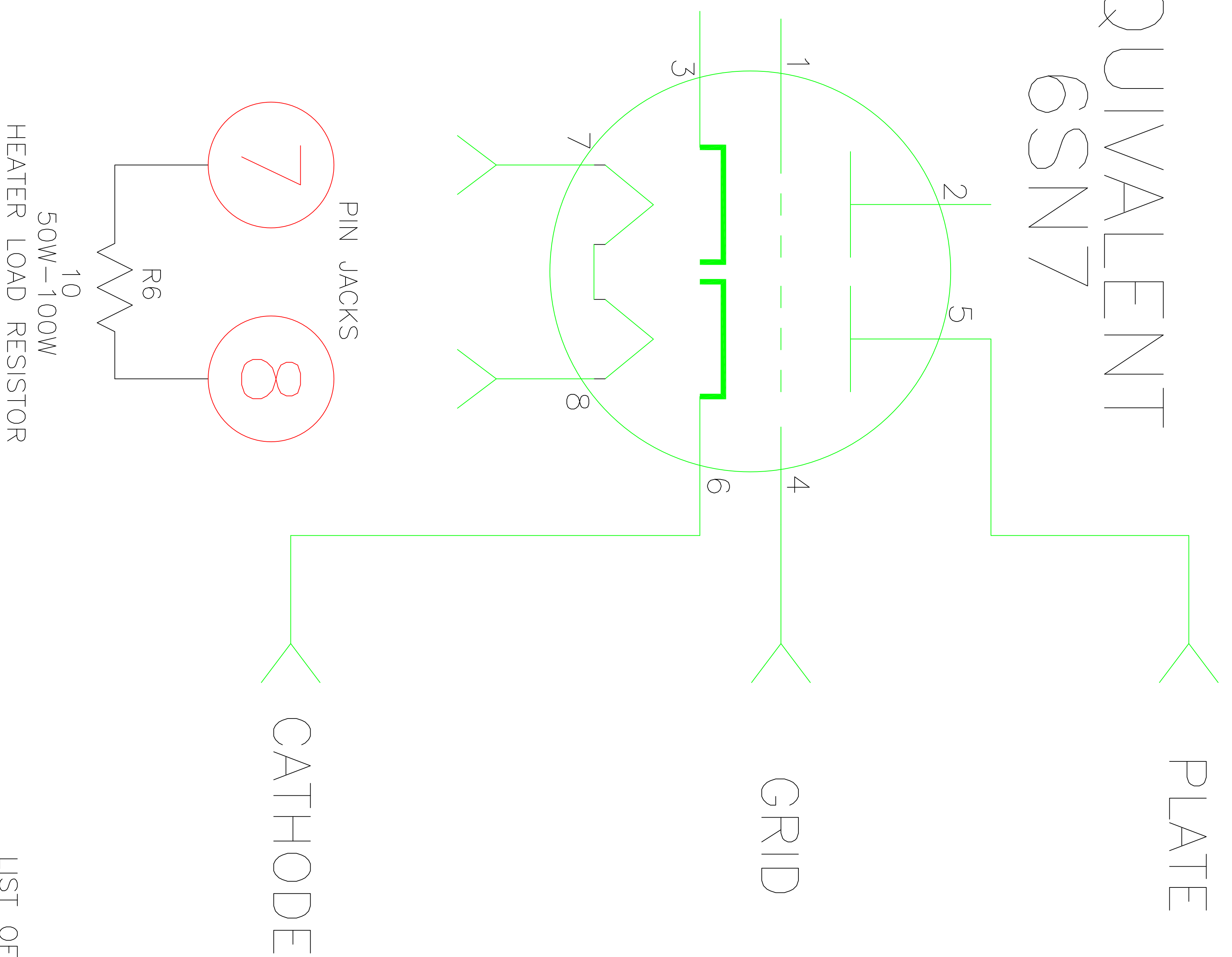


OCTAL PIN ON TUBE TESTER

CALIBRATOR CIRCUIT

S1	R1	R5	GM	PLATE MA
2 POLE	100K	220		
ON UP	SHORT	220	6000	22.1 +/--0.1%
OFF MID	100K	OPEN	1500	11.1 +/--0.1%
ON DOWN	SHORT	OPEN	3000	11.1 +/--0.1%

EQUIVALENT 6SN7



TUBE TESTER PARAMETERS

6SN7 SETTINGS (PLATE 1)
 PLATE = 150V (50-250V NO EFFECT ON GM)
 GRID = 0V (M1 OVERLOADS AT G>2V)
 MAX. SIGNAL 2.5V (5V AT GM 1500)
 USE EXTERNAL JACKS FOR 10 OHM 50W OR 100W RESISTOR
 RESISTOR CONNECTED TO HEATER PINS 7-8
 SIMULATES HEATER LOAD 0.6-0.8A

LIST OF COMPONENTS

SCHEMATIC	SPECIFICATION	MANUF. PART #	MOUSER PART #	MANUFACTURER	COMMENTS
R1	100K ohm 1/2W 0.1%	CMF55100K00BHEB	71-CMF55100K00BHEB	Vishay/Date	
R2	100K ohm 1/2W 0.1%	CMF55100K00BHEB	71-CMF55100K00BHEB	Vishay/Date	
R3	243 ohm 1/2W 1%	CCF60243RFKE36	71-CCF60-243-E3	Vishay/Date	
R4	40.2 ohm 1/2W 1%	CCF6040R2FEK36	71-CCF60-40.2-E3	Vishay/Date	
R5	220 ohm 1/2W 1%	RN65D2430FB14	71-RN65D-F-243	Vishay/Date	
R6	10 ohm 50W (100W)	RH05010R00FE02	71-RH05010R00FE02	Vishay/Date	50 WATT SHOWN, (100W OK)
C1	0.1uF 200VDC FILM	104MWR250K	598-104MWR250K	CDE	
D1	1A 600V RECTIFIER	UF4005	512-UF4005	ON Semiconductor	1N4005 sub
D2-D3	Zener 12V 1/2W	1N5242B	512-1N5242B	ON Semiconductor	
M1	Current Regulator 450V	IXCP10M45S	747-IXCP10M45S	IXYS	TO220 CASE, ADD A HEAT SINK
S1	DPDT 3-Way	730SYZBE	611-7203SYZBE	C&K	ON-OFF-ON MINI SWITCH

*TWO RESISTORS SELECTED TO OBTAIN 283 OHMS
 SEE MATERIALS LIST FOR SUGGESTIONS.
 **HEAT SINK IS AT ANODE POTENTIAL - ISOLATE FROM OTHER METAL.

OCTAL TUBE BASE
 HEAT SINK
 HEAT PIN JACKS
 METAL TUBE, TOP, OR BOX, FITS OVER TUBE BASE, SWITCH ON TOP ETC.