

FOR V IN < 800 V DC,
DO NOT INSTALL C5 & R8.
REPLACE C5 BY A STRAP.

FOR V IN < 600 V DC,
DO NOT INSTALL C4, C5, R7, R8.
REPLACE C4 & C5 BY 2 STRAPS

EXAMPLE VALUES FOR VG2 1000 V, 100 mA MAX
SEE BILL OF MATERIALS FOR COMPONENTS VALUES

VALUES FOR VG2 800 V, 100 mA MAX
VAC= 750 TO 800 V
WITH RV1 & RV3 = 50 k, V G2 = 730 V TO 870 V
R2 & R11= 3.9M 3500 V, Q1 = MOSFET STW11NK100Z OR IGBT FGH30S130P
R1 = 68 k, R3 = 120 k, R12 = 4 k, R14 = 1.41 k

VALUES FOR VG2 350 V, 100 mA MAX
VAC= 350 TO 400 V
WITH RV1 & RV3 = 50 k, V G2 = 260 V TO 380 V
R2 & R11 = 1 M >500 V, Q1 = MOSFET STW11NK100Z OR IGBT FGH30S130P
R1 = 33 k, R3 = 56 k, R12 = 1.1 k, R14 = 1 k

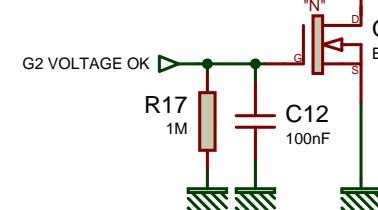
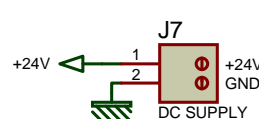
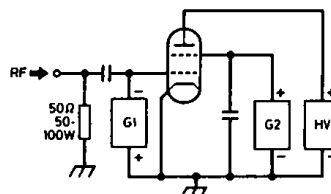
TRIP RELAY CLOSSES IF VOLTAGE AND CURRENT ARE OK.
RELAY OPENS ON CURRENT SURGE > ~ 0.1 SECONDE,
THEN AUTOMATICALLY CLOSSES (IF FUSE OK)
AFTER ABOUT 1 SECONDE,
(STAYS OPEN IF STILL TO HIGH CURRENT)

LE RELAIS SE FERME SI TENSION ET COURANT SONT OK,
LE RELAIS S'OUVRE SUR CRETE DE COURANT > ~ 0.1 SECONDE,
PUIS SE REFERME AUTOMATIQUEMENT (SI FUSIBLE OK)
APRES ENVIRON 1 SECONDE,
(RESTE OUVERT SI LE COURANT EST TOUJOURS TROP FORT)



FOR R1, R12 & R14 VALUES, SEE EXCEL CALCULATION SHEET

FOR R2 & R11, R3 & RV3, & Q1 VALUES, SEE BILL OF MATERIALS



REV 6b1: REPLACE R20 BY VARIABLE RESISTOR (RV3) TO ADJUST MAX G2 VOLTAGE

TETRODE AMPLIFIER DESIGN SUITE G2 1000 V MAX POWER SUPPLY & SAFETY TRIP

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