

Power Supply for Kearfott MRLG 1 (SG-KF1)

Variable Frequency Oscillator

12 VDC

V+

C1 22uF 25V

9T #28

450T #40

Inverter

Q1 BUZ71A

C3 20nF

V+

C5 0.1uF

R4 3.3K

U1 NE555

CV

THR

V-

C7 0.1uF

C8 100pF

R5 10K

R6 50K

CW

Frequency

D1 5kV

C2 10nF 3kV

R1 50K

CW

Laser Current per Discharge 0.42-0.62 mA

R2 10M

R3 1M

LED1 SB-Blue HV

S1 Start

C4 0.1uF 150V

T2 (3) Trigger

RX1 RX2 RY1 RY2 RZ1 RZ2

X1 X2 Y1 Y2 Z1 Z2

Ballast Resistors 100K 1W

Kearfott Monolithic Ring Laser Gyro Block

Notes:

1. Custom wound transformer, see text.
2. RLG block drawn as laser tubes but the intent should be clear.
3. Xicon PN 422-3306.
4. Laser operating current fine tuning.

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Size A	Document Number SG-KF1-SCH	REV 1.0
Date: October 29, 2025	Sheet 1 of 1	

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