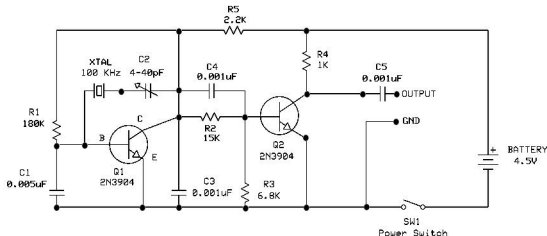


100KHz. FREQUENCY STANDARD



CIRCUIT ADJUSTMENT

Attach a Frequency Counter to OUTPUT and GND. Adjust C2 for 100 KHz. reading.

Square wave output also produces a large number of harmonics.

PARTS LIST

C1 0.005uF CERAMIC DISK CAPACITOR

C2 4-40pF TRIMMER CAPACITOR

C3, C4, C5 0.001uF CERAMIC DISK CAPACITOR

R1 180K 1/4W RESISTOR

R2 15K 1/4W RESISTOR

R3 6.8K 1/4W RESISTOR

R4 1K 1/4W RESISTOR

R5 2.2K 1/4W RESISTOR

Q1, Q2 2N3904 NPN TRANSISTOR

XTAL 100 KHz. CRYSTAL

SW1 SPST SWITCH

Circuit operates using three AA batteries or a 5 Volt DC power supply.

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