SPECIFICATIONS PS1-A

PULSED NUCLEAR MAGNETIC RESONANCE SPECTROMETER

MAGNET - FIELD STRENGTH IN GAP 3500 GAUSS (NOMINAL)
          GAP 1.1 inches
          UNIFORMITY .01% over 1cm? volume
          CARRIAGE Horizontal - Vertical Motion ±2cm
TEMPERATURE COEFFICIENT 4 GaussºC
WEIGHT 42 LBS.
LUBRICATE BEARINGS WITH WD-40

CASE WITH POWER SUPPLY

POWER SUPPLY - TRIPLE OUTPUT
+5 volts @ 6A
+15 volts @ 1A
-15 volts @ 1A
Line regulation ±0.05% for 10% line change
Ripple 2 mv rms maximum
Load regulation ±0.05% for 50% load change
Two empty slots for additional modules
WEIGHT 15 LBS.

PULSE PROGRAMMER PP-101

A-PULSE  1-30 ms  4 volt positive
B-PULSE  1-30 ms  4 volt positive
Delay Time  10 ms (0.01x10⁶) - 9.99 s (9.99 x 10³)
MODE: Internal, External Pulse, Manual
REPETITION TIME: 1 ms to 10 s
Meiboom - Gill Phase shift pulse
Scope Synchronizing Pulse either at A or B
NUMBER OF B PULSES: 0-99

OSCILLATOR / AMPLIFIER / MIXER PT-1501
15 MHz DIGITALLY SYNTHESIZED OSCILLATOR
FREQUENCY RESOLUTION 10 Hz
FREQUENCY ACCURACY: .005%
CW-RF OUTPUT LEVEL - 13 db
PEAK OUTPUT POWER 150 watts (nominal)
MIXER INPUT LEVEL: 50 mv rms (max)
MIXER OUTPUT LEVEL: 2 v rms (max)
MIXER BANDWIDTH: 500 KHz

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RECEIVER PR 1501

CENTER FREQUENCY: 15 MHz (nominal) TUNABLE
BANDWIDTH 200 KHz (3db)
SENSITIVITY 8μV for full scale output
OUTPUT VOLTAGE / RANGE: 0-10 volts
GAIN RANGE: 60db (typical)
EQUIVALENT NOISE VOLTAGE: 1.5 mV rms
RF OUTPUT LEVEL: 50 mV for full scale signal
TIME CONSTANTS: .01, .03, .1, .3 ms

SAMPLE PROBE
TRANSMITTER COILS IN HELMHOLTZ CONFIGURATION
12 GAUSS ROTATING FIELD AT SAMPLE
RECEIVER COIL
SPECIAL CABLES FOR TRANSMITTER AND RECEIVER

SAMPLE STORAGE CASE
WITH 25 VIALS AND 5 O-RINGS

DUMMY SIGNAL AND TRANSMITTER PROBES.