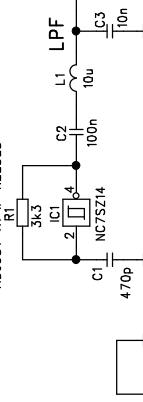


**OSCILLATOR 500kHz + -50kHz**

ADJUST R1 IF NEEDED



IC1 NC75214

C1 470p

3k3

R1

10k

C2 100n

L1 10u

C3 100n

L2 10u

C4 100n

D1 BAT54S

C5 100n

R2 10k

C6 100n

R3 470R

400uH/400uH

Wurth 744205

33R

R4 100n

R5 10k

D2 BAT54S

PRE-BIAS

SW1-D

RANGE SELECT

J1

SOIL TERMINAL 1

**RF RECTIFIER**

ADJUST R1 IF NEEDED

R1

10k

C5 100n

D1 BAT54S

C7 100n

R7 10k

C6 100n

R6 10k

1.470k

R8 22k

10k

R9 10k

DC AMP

MCP6072-E

IC2-A

3+ C2-A

2- C2-A

1- C2-A

0- C2-A

G10mS

R10 50k

G10mS

R11 50k

G10mS

R12 50k

M+

SW1-A

RANGE SELECT

M-

SW1-A

M+

SW1-A

M-

SW1-A

**RF CUR TRAFO**

ADJUST R1 IF NEEDED

R1

10k

C3 100n

L1 10u

C2 100n

L2 10u

C4 100n

D1 BAT54S

C5 100n

R2 10k

C6 100n

R3 470R

400uH/400uH

Wurth 744205

33R

R4 100n

R5 10k

D2 BAT54S

PRE-BIAS

SW1-D

RANGE SELECT

J2

SOIL TERMINAL 2

**DC AMP**

ADJUST R1 IF NEEDED

R1

10k

C5 100n

D1 BAT54S

C7 100n

R6 10k

1.470k

R7 10k

C8 100n

R8 22k

10k

R9 10k

DC AMP

MCP6072-E

IC2-A

3+ C2-A

2- C2-A

1- C2-A

0- C2-A

G10mS

R10 50k

G10mS

R11 50k

G10mS

R12 50k

M+

SW1-A

RANGE SELECT

M-

SW1-A

M+

SW1-A

**PRE-BIAS**

ADJUST R1 IF NEEDED

R1

10k

C5 100n

D1 BAT54S

C6 100n

R2 10k

1.470k

R3 470R

400uH/400uH

Wurth 744205

33R

R4 100n

R5 10k

D2 BAT54S

PRE-BIAS

SW1-D

RANGE SELECT

J2

SOIL TERMINAL 1

**ZERO ADJ**

ADJUST R1 IF NEEDED

R1

4.7k

R13

Z100mS

R14

50k

R15

68k

R16

47k

+9V

OFF/ON

SW1-B

BATTERY

9V

-

Keystone 1294 battery holder

TEST GND

TP

+5V

LP2951

SENSED ERR

IN

TAP FB

GND

C10

4.47

C11

100n

C12

100n

C13

100n

IC1

IC2

IC3

IC3

TP

+5V

LED1

LOW BATT (6V)

R19

1k

R18

2M2

IC3

TLV271SN2TG

Z1

LM4040-2V5

TEST GND

TP

+5V

LED1

LOW BATT (6V)

R19

1k

R18

2M2

IC3

TLV271SN2TG

Z1

LM4040-2V5

TEST GND

TP

+5V

LED1

LOW BATT (6V)

R19

1k

R18

2M2

IC3

TLV271SN2TG

Z1

LM4040-2V5

TEST GND

TP

+5V

LED1

LOW BATT (6V)

R19

1k

R18

2M2

IC3

TLV271SN2TG

Z1

LM4040-2V5

TEST GND

TP

+5V

LED1

LOW BATT (6V)

R19

1k

R18

2M2

IC3

TLV271SN2TG

Z1

LM4040-2V5

TEST GND

TP

+5V

LED1

LOW BATT (6V)

R19

1k

R18