

FDIM 2017 CRYSTAL GRINDING BUILDATHON CRYSTAL OSCILLATOR & FREQUENCY COUNTER

RESISTORS

100ohms (BRN-BLK-BRN)
300ohms (ORG-BLK-BRN)
1Kohms Qty=3 (BRN-BLK-RED)
47K (YEL-VIO-ORG)
100K (BRN-BLK-YEL)
820K (GRY-RED-YEL)
1M Qty=2 (BRN-BLK-GRN)

500ohm trim pot
20Kohm trim pot

CAPACITORS

10pf (10)
22pf (22)
47pf Qty=2 (470)
 {ONE @ 1000 in status section}
150pf (151)
470pf (471)
680pf (681)
1000pf Qty=2 (102)
 {TWO in oscillator section}
.047uf (473)
.1uf Qty=3 (104)
1.5uf
10uf

4-20pf trimmer cap

SEMICONDUCTORS

MPF102 transistor
PN2222A transistor Qty=2
2N4403 transistor
78L05 voltage regulator
74HC132 integrated circuit
1N4148 diode Qty=4
Green LED
Red LED
4Mhz crystal
PIC16C622 microprocessor
2x16 LCD Display

MISCELLANEOUS

1x8x.1" male Molex header Qty=3
1x8x.1" female Molex header QTY=2
1x2x.1" shorting jumper Qty=2
18pin IC socket
14pin IC socket
RCA female jack
9volt battery snap
single SIP socket pin
calibration crystal

BUILDER SOURCED STUFF

1/2" or 3/4" copper pipe cap
fine gauge flexible wire
small lead weights