WSE

SCHEMATIC, PCB
DR4201 DIGIREADER

5800005 C

X7

(LOCATE CLOSE TO U8)

RXD
TXD
TXE

TP5 TP4 TP3

+5VA
CX1 .1uF 100V 20%
DGND

L3 BEAD
C60 .1uF 100V 20% (DB)
L4 BEAD (DB)
ICGND

R112 10 1/10W 5%
C9 .1uF 100V 20%

+5V TP7
C8 10uF 6.3V 10%

+5V P3
CR5 SA5.0
DGND

VR2 78L05G

R122 10 1/10W 5%
C2 .1uF 100V 20%
+5V
DGND

U101 MAX4192ESA

+12V
C70 .1uF 100V 20%
TP8
C6 10uF 6V 10%
VR1
C5 .1uF 100V 20% TP6
C69 6.8uF 35V 10%
+V
DGND

RP4 1K 1/16W 5%
RP4 1K 1/16W 5%
+5V
DGND

TP1 A_OT
TP2 B_IN
C1 100pF NPO
CR2 SA5.5C
CR1 SA5.5C
DGND

RX3 4.7 1W 5%
R5 SMT100
CR4 SA7/8A
C4 .1uF 100V 70%
DGND

CR3 1N4002

L1 BEAD
+DCV
J1 - 1 JACK

L2 BEAD
+DCVRET
J1 - 4 JACK

R110 120 1/4W 5%
CX2 100pF 60V NPO
C11 .001uF 100V 20%
W1 2PHDR

L6 BEAD
A
J1 - 2 JACK

L7 BEAD
B
J1 - 3 JACK

LED_IN_GRN P11
P10
TP15
RP2 1K 1/16W 5%
CR7 SA5.0
DGND
+5V RP2 1K 1/16W 5%

LED_IN_RED
TP16
RP2 1K 1/16W 5%
CR11 SA5.0
DGND
+5V RP2 1K 1/16W 5%

Q3 VN10LF
DGND

CR12 SA5.0
DGND
+5V RP4 1K 1/16W 5%

DATA0_OUT
TP17

Q4 VN10LF
DGND

CR13 SA5.0
DGND
+5V RP4 1K 1/16W 5%

DATA1_OUT
TP18

L8 BEAD
LED_GRN
J1 - 8 JACK

L9 BEAD
LED_RED
J1 - 7 JACK

CR6 SA5.5C
R109 100 1/2W 5%
COMMGND
C10 2200pF 50V 10%
L5 BEAD
W2 3PHDR
SHIELD
J1 - 5 JACK

L10 BEAD
DATA0
DGND

L11 BEAD
DATA1
J1 - 6 JACK

PAGE2
PAGE2
PAGE2

2 COMPONENT NOT INSTALLED

NOTES: UNLESS OTHERWISE SPECIFIED:

PAGE3 70KHZ

PAGE3 140KHZ

PAGE2 TXE
PAGE2 TXD
PAGE2 RXD

PAGE3 DATA

U4VCC

U4
74HC74D

U4
74HC74D

TP13

CR8
LED_DU/IL

RP3
RP3

DGND

+5V
R119 10 1/10W 5%
C21 .01uF 100V 20%
DGND

+5V
R117 10 1/10W 5%
C22 .1uF 50V 20%
DGND

P4 P5 P6 P7

LS1 AUDIO
+12V
Q1
VN10LF
DGND

Y1 11.0592MHz
C20
C19
OSC1
OSC2
DGND

U3
PIC16C73A

16C73A
ICP1
+5V
DGND
DATA
RESET
RB6
NC

P10 P11

RP5 1K 1/16W 5%
RP5 1K 1/16W 5%
RP5 1K 1/16W 5%
RP5 1K 1/16W 5%
RX4 1K 1/10W 5%
DGND

SW1
SPDIP8SW

+5V

PAGE3 PWR_HI
PAGE3 PWR_MID
PAGE3 PWR_LO

PAGE3 DATA1_OUT
PAGE3 DATA0_OUT
PAGE3 LED_IN_RED
PAGE3 LED_IN_GRN

* COMPONENT(S) NOT INSTALLED

= PADS USED FOR PROTOTYPE PURPOSES.

NOTE: UNLESS OTHERWISE SPECIFIED

(NOTCH(140))

(SQTOSIN)

(PEAK DET.)

AIR COIL TERMINALS

RECEIVER

COILDRVR

DRIVER MUST BE
CONNECTED IN
START (LEFT TO RT DIR)

+12V

+12VA

70KHZ

140KHZ

PWR_HI

PWR_MID

PWR_LO

VCC

AGND

DATA