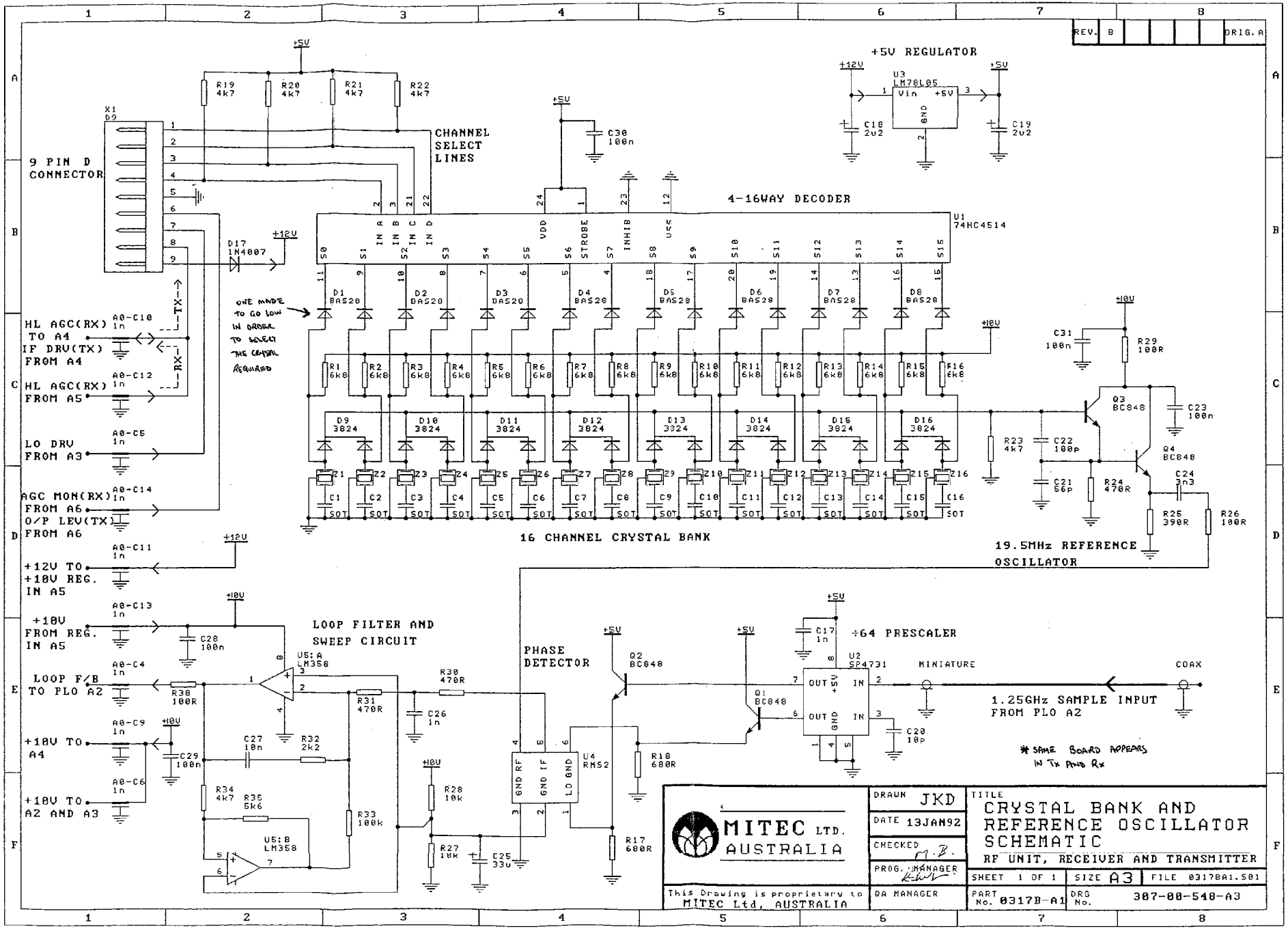
REV. B
DRIG. A
+5V REGULATOR
U3 LM78L05
C18 2u2
C19 2u2
9 PIN D CONNECTOR
X1 D9
R19 4k7
R20 4k7
R21 4k7
R22 4k7
CHANNEL SELECT LINES
C30 100n
4-16WAY DECODER
U1 74HC4514
D17 1N4007
ONE MADE TO GO LOW IN ORDER TO SELECT THE CRYSTAL REQUIRED
HL AGC(RX) TO A4
IF DRV(TX) FROM A4
HL AGC(RX) FROM A5
LO DRV FROM A3
AGC MON(RX) FROM A6
O/P LEV(TX) FROM A6
+12V TO +10V REG. IN A5
+10V FROM REG. IN A5
LOOP F/B TO PLO A2
+10V TO A4
+10V TO A2 AND A3
D1 BAS28
D2 BAS28
D3 BAS28
D4 BAS28
D5 BAS28
D6 BAS28
D7 BAS28
D8 BAS28
R1 6k8
R2 6k8
R3 6k8
R4 6k8
R5 6k8
R6 6k8
R7 6k8
R8 6k8
R9 6k8
R10 6k8
R11 6k8
R12 6k8
R13 6k8
R14 6k8
R15 6k8
R16 6k8
D9 3824
D10 3824
D11 3824
D12 3824
D13 3824
D14 3824
D15 3824
D16 3824
16 CHANNEL CRYSTAL BANK
C31 100n
R29 100R
Q3 BC848
Q4 BC848
C23 100n
R23 4k7
C22 100p
C21 56p
R24 470R
C24 3n3
R25 390R
R26 100R
19.5MHz REFERENCE OSCILLATOR
LOOP FILTER AND SWEEP CIRCUIT
U5:A LM358
U5:B LM358
C28 100n
C29 100n
C27 10n
R38 100R
R31 470R
R30 470R
R32 2k2
R34 4k7
R35 5k6
R33 100k
R28 10k
R27 10k
C25 33u
C26 1n
PHASE DETECTOR
U4 RM52
R18 680R
R17 680R
Q2 BC848
Q1 BC848
÷64 PRESCALER
U2 SP4731
C17 1n
C20 10p
MINIATURE
COAX
1.25GHz SAMPLE INPUT FROM PLO A2
* SAME BOARD APPEARS IN Tx PWR Rx
MITEC LTD. AUSTRALIA
This Drawing is proprietary to MITEC Ltd, AUSTRALIA
DRAWN JKD
DATE 13JAN92
CHECKED M.B.
PROG. MANAGER
DA MANAGER
TITLE
CRYSTAL BANK AND REFERENCE OSCILLATOR SCHEMATIC
RF UNIT, RECEIVER AND TRANSMITTER
SHEET 1 OF 1
SIZE A3
FILE 0317BA1.S01
PART No. 0317B-A1
DRG No. 307-00-548-A3