RX_DEMOD 13-P2
RX_DEMOD
C52 100P
R76 100R
U20 5C3126
RX_EN
U8 TK11250
IN OUT
GND2 NB
GND1 EN
C64 1U
C65 1N
C63 100P
C61 0.1U
Q4 MMBT4403
R128 2K1 1%
R129 2K2
Q5 TN2106
SW_RST
R47 1M
R3 100R
U23 5C3126
TX_LEVEL4
TX_LEVEL3
TX_LEVEL2
TX_LEVEL1
TX_LEVEL[1:4]
R13 10K
R19 1K62 1%
R20 1K62 1%
R21 1K62 1%
R23 10K
C3 0.1U
C22 0.1U
C28 0.1U
C37 0.1U
MLB_RSSI
R72 10K
R55I P2-12
C313 100P
R83 10K
C59 100P
R80 10K
U9 X9241
(1)SQUELCH ADJUST
R82 41K2 1%
R78 511K 1%
U18 TLC372
R79 30K1 1%
VOICE_OUT
R25 22K1 1%
C10 1U
U20 5C3126
R68 2K1 1%
R2 47K5 1%
U3 TLC27M4
R212 3K9
U9 X9241
(3)DEVIATION/RX LEVEL ADJUST
R74 100R
C31 1U
R92 2K2
R211 3K9
C77 1U
R91 3K92 1%
R90 10K
R106 301R 1%
R88 10K
C80 22U
R105 301R 1%
C76 1U
R84 10K
R107 3K92 1%
R77 1M
R81 5K6
R66 100R
C73 1U
R36 1M
R61 5K6
R35 1M
R57 5K6
R58 100R
C71 1U
C19 100P
R44 1M
C70 1U
NOT_POP
C82 NOT_POP
C100 10N
U15 5C3126
C13 220P
C101 180P
R93 33
R94 33K
R104 1M
R103 100K
R124 100R
U15 5C3126
C60 1U
R135 3K9
TLC27M4 U2
U25 5C3126
R210 4K9
U12 LTC1164_7
VOUT
VIN
CON2
CON1
V+
50/100
GND1
GND2
LP6
FCLK
V-
C104 1U
C103 1U
R138 100R
R101 1K
R24 22R
R102 47K5 1%
C51 1U
R65 470R
TX_VOICE_EN
RX_EN
RESETN P1-13
RSSI P1-12
MLB_RSSI
TXMOD/SINAD P1-15
TXMOD/SINAD
5V_RAD P1-14
GND P1-1
7.2V_RAD P1-16
C38 100P
C78 1U
C79 0.1U
SPKR P1-22
SPKR
NC P1-25
SCPRXD P1-24
UNUSED
U20 5C3126
U24 5C3126
U14 5C3126
U23 5C3126
U22 5C3126
U25 5C3126
U15 5C3126
MIC P1-21
MIC
R201 30K1 1%
R202 47K5 1%
R203 30K1 1%
R204 47K5 1%
R205 47K5 1%
R206 2K2
R207 2K2
U21 TLC372
C9 12N
C7 12N
C308 100P
R39 100R
R7 22K1 1%
C92 1U
R5 100K
R6 68K1 1%
R9 22K1 1%
R8 100K 1%
R11 10K
R213 NOT_POP
C8 1N
R12 10K
R14 22K1 1%
R15 100R
Q11 TN2106
D3
S2
U14 5C3126
Q1 PXT4403
R18 22K1 1%
R16 1K
C44A 100P
C45 1N
R17 680R
R53 30K1 1%
TX_7.2V P2-3
7_2V
5V
5_0V
VB
SCP_RAD1 P1-20
SCP_RAD2 P1-4
SCP_RAD3 P1-5
SCP_RAD4 P1-19
SCP_RAD5 P1-26
SCP_RAD[1:5]
SCP_TXD P1-8
SCP_CLK P1-6
SCP_CLK
R300 100K
CARDETN P1-10
SYNLCKN P1-2
RCLK2 P1-9
TX_PWR_OFF
TXKEY
SW_RST
RX_EN
RXD P1-18
TX_DATA P1-17
TXKEY P1-11
TXD2 P1-7
TX_DATA
R99 10K
R98 10K
R59A 47K5 1%
R59 47K5 1%
R46 100K
R22 100K
R38 100K
R28 22K
R214 NOT_POP
U16 74HC589 or 74HC597
R59A if U16 is 74HC589
R59 if U16 is 74HC597
SCP_CLK
SCP_RAD1
SCPRXD
Q3 TN2106
D3
S2
U14 5C3126
MIC_GAIN
MIC BIAS
R33 1K
C29 0.1U
R32 4K7
C39 0.1U
C1 0.2U
R108 6K81 1%
C99 0.1U
R1 100K
R70 100K 1%
C98 100P
R87 100K 1%
U2 TLC27M4
U22 5C3126
C25 0.012U
C24 0.012U
R30 36K5 1%
300Hz HIGH PASS
C23 0.012U
R29 511K 1%
R31 6K81 1%
U4 TLC27M4
R67 100R
C58 100P
C94 1U
R40 14K7 1%
C96 0.1U
C27 2N2
R130 58K1 1%
R131 100K 1%
FM PRE-EMPHASIS
C43 0.22U
C97 22P
R34 750K 1%
R73 68K1 1%
C74 10N
R37 4K7
R42 56K2 1%
R41 56K2 1%
C33 1N
R51 5K6
FM DE-EMPHASIS
C36 1N2 3kHz LOW PASS
R43 56K2 1%
C34 150P
C35 220P
R45 5K6 1%
C15 NOT_POP
C14 1N2
R27 56K2 1%
C12 390P
R48 5K6
C48 0.22U
C86 0.1U
R4 100R
C20 1N
10K_LOG SPEAKER GAIN
R119 10R
C88 0.1U
U11 X9314
INC VCC
U/D VW
CS VSS
VOICE_OUT
R112 10K
C84 0.1U
C3
Q6 TN2106
Q2 MMBT4403
R111 22K1
R109 1K
R110 1K
C91 16V 47U
R26 100R
C21 1U
R64 3K9
R63 680R TXMOD/SINAD
U2 TLC27M4
U24 5C3126
R216 100R
(0)MOD BALANCE
R200 100R
MOD_BALANCE P2-14
C105 100P
R52 47K5
R60 100R
TX_MOD P2-6
R54 47K5 1%
C42 100P
R62 14K7 1%
R55 47K5 1%
(2)FREQUENCY ADJUST
R56 14K7 1%
C18 1U
7_2_RAD P2-2
C11 100P
C57 0.1U
GND P2-1
P1-23
P2-11
C312 100P
5_0V P2-5
MOD_GATE
RX_VOICE_EN
TX_VOICE_EN
RX_EN
RX_ENN
SYNTH_LOCK
SYNTH_LE
SYNTH_DATA
SYNTH_CLK
SPKR_EN
VOICE_EN
QUAD_CLK
QUAD_DATA
LOG_INCN
LOG_U/D
LOG_CSN
GND
R85 100R
RX_CTRL P2-4
R10 100R
R208 100R
R75 100R
R86 100R
C66 1N
C56 100P
C55 100P
C54 100P
U9 X9241
R133 10K
C85 10N
RX_EN
TX_VOICE_EN
VOICE_EN
LOG_CS
LOG_U/D
LOG_INC
SPKR_EN
ALTERA FPGA
ALT_8452
TX_LVL
FILTER_CLK_50/100
TX_LEVEL[1:4]
SCP_RAD[1:5]
SCP_TXD
SCP_CLK
DC_REST
CARDETN
SYNLCKN
TX_PWR_OFF
RCLK2
TX_PWR_HI/LOWN
SW_RSTN
RX_DATA
TX_DATA
TXKEY
MIC_GAIN
TXD2
RXD2
SCP_RXD
FILTER_CLK
RXDA
RXDB
RXDC
COUPLING
VCC
RXD
TX_DATA
RX_DEMOD
TX_VOICE_EN
RX_VOICE_EN
VOICE_EN
RXDA
RXDB
RXDC
POPULATED ONLY WITH VOICE OPTION
POPULATED ONLY WITHOUT VOICE OPTION
SIGNATURES
DRAWN D.Z. 98-05-20
CHKD
APPVD
PROJ ENG
ELEC. ENG
ERN NO. DATE
TEKLOGIX INC MISSISSAUGA ONTARIO
TITLE TRX7355 INTL SYNTH
DRAWING NO 19984-001 REV B
SCALE
SHEET 1 OF 2
5-29-1998_13:10