

# X33X

## SEMICONDUCTOR DESIGNATIONS AND FUNCTIONS

| Designator | Description     | Application                      |
|------------|-----------------|----------------------------------|
| CPU1       | W742C81A        | Micro controller                 |
| D1         | KDS114E         | TX,RX switch                     |
| D3         | KDS114E         | Squelch temperature compensation |
| D4         | KDS160          | TX PA temperature compensation   |
| D5         | KDS114E         | VOX rectifier                    |
| D13        | KDS114E         | TX,RX switch                     |
| D201       | KDS114E         | Reset for micro controller       |
| D301       | KDS114E         | VCO TX,RX switch                 |
| D6         | KDS113E         | VCO Vcc switch                   |
| IC1        | DBL5018         | IF IC                            |
| IC2        | LM386           | Speaker amplifier                |
| IC201      | TB31202         | PLL IC                           |
| IC3        | XC6201          | 4V regulator                     |
| IC4        | LM324           | OP amp.                          |
| IC5        | LM324           | OP amp.                          |
| LED1       | SML210MT        | LED for backlit                  |
| Q1         | DRF1601         | TX PA                            |
| Q2         | BFQ67W          | TX driver                        |
| Q3         | BFQ67W          | TX driver                        |
| Q4         | BFQ67W          | TX driver                        |
| Q5         | KRC404E         | Incoming CTCSS limiter           |
| Q6         | 2SC4226         | RX LNA                           |
| Q7         | KTA2014E        | PTT switch                       |
| Q8         | 2SC4226         | RX MIXER                         |
| Q9         | 2SC4083         | IFA                              |
| Q10        | KRA306E         | VCO Vcc switch                   |
| Q11        | BFQ67W          | TX pre-driver                    |
| Q12        | KRC404E         | Charger Detector                 |
| Q13        | KRA226          | TX Vcc switch                    |
| Q14        | KRA306E         | RX Vcc switch                    |
| Q15        | KRA306E         | TX Power Hi/Low switch           |
| Q16        | KRA226          | Speaker amplifier Vcc switch     |
| Q17        | KRC405E         | TX audio Mute                    |
| Q18        | KRA226          | Main Vcc switch                  |
| Q19        | KRC401E         | VCO TX,RX switch                 |
| Q20        | KRA306E         | TX Power Hi/Low switch           |
| Q21        | KRC404E         | VOX amplifier                    |
| Q22        | KTC4075E        | RX audio amplifier               |
| Q23        | KRC405E         | RX audio mute                    |
| Q24        | KRC246S         | Vibrator driver                  |
| Q26,Q27    | KRA306E,KRC404E | Charger Enable                   |
| Q28        | KRC404E         | Charger voltage Enable           |
| Q301       | 2SC4226         | VCO                              |
| Q302       | 2SC4226         | VCO                              |

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