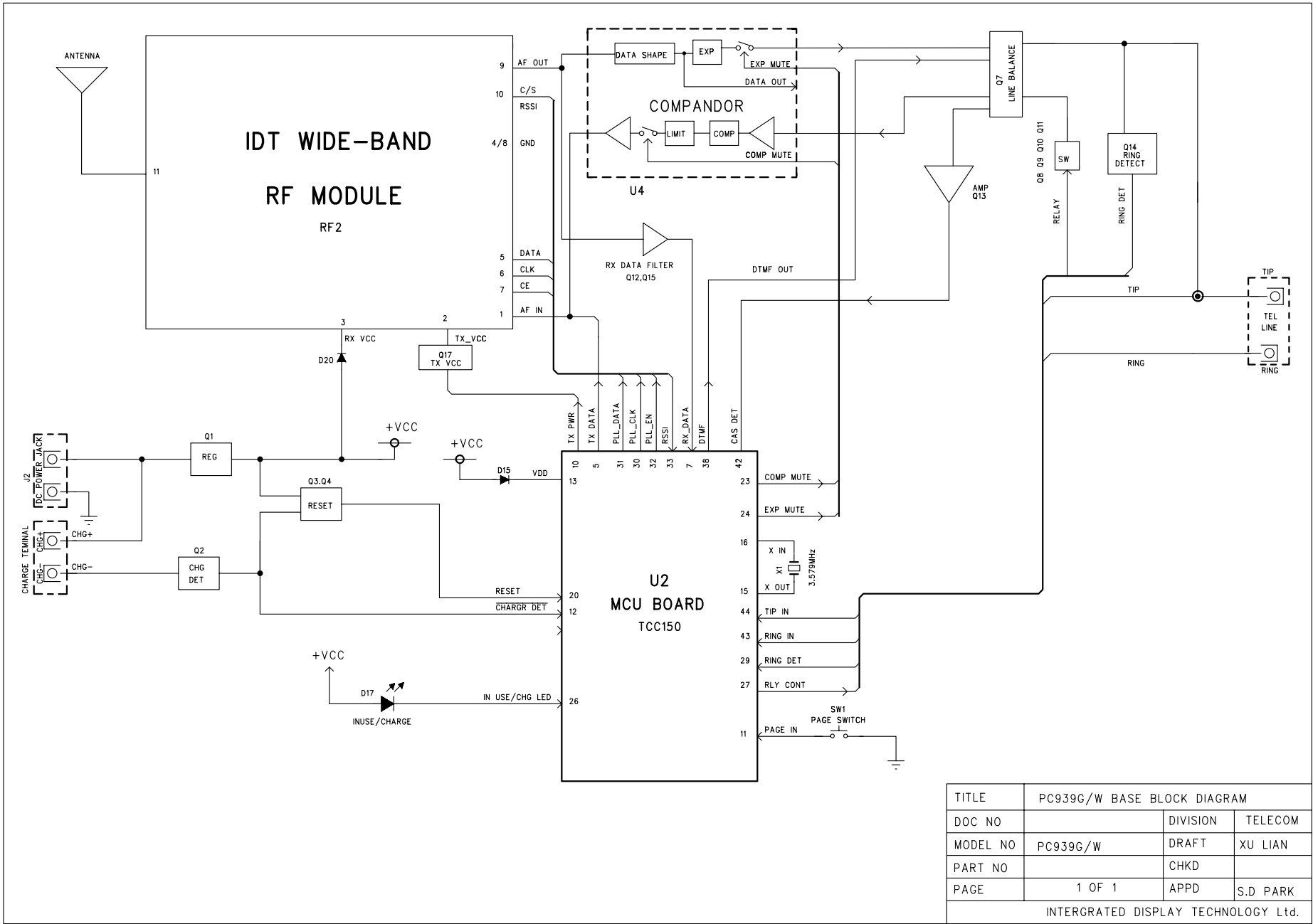
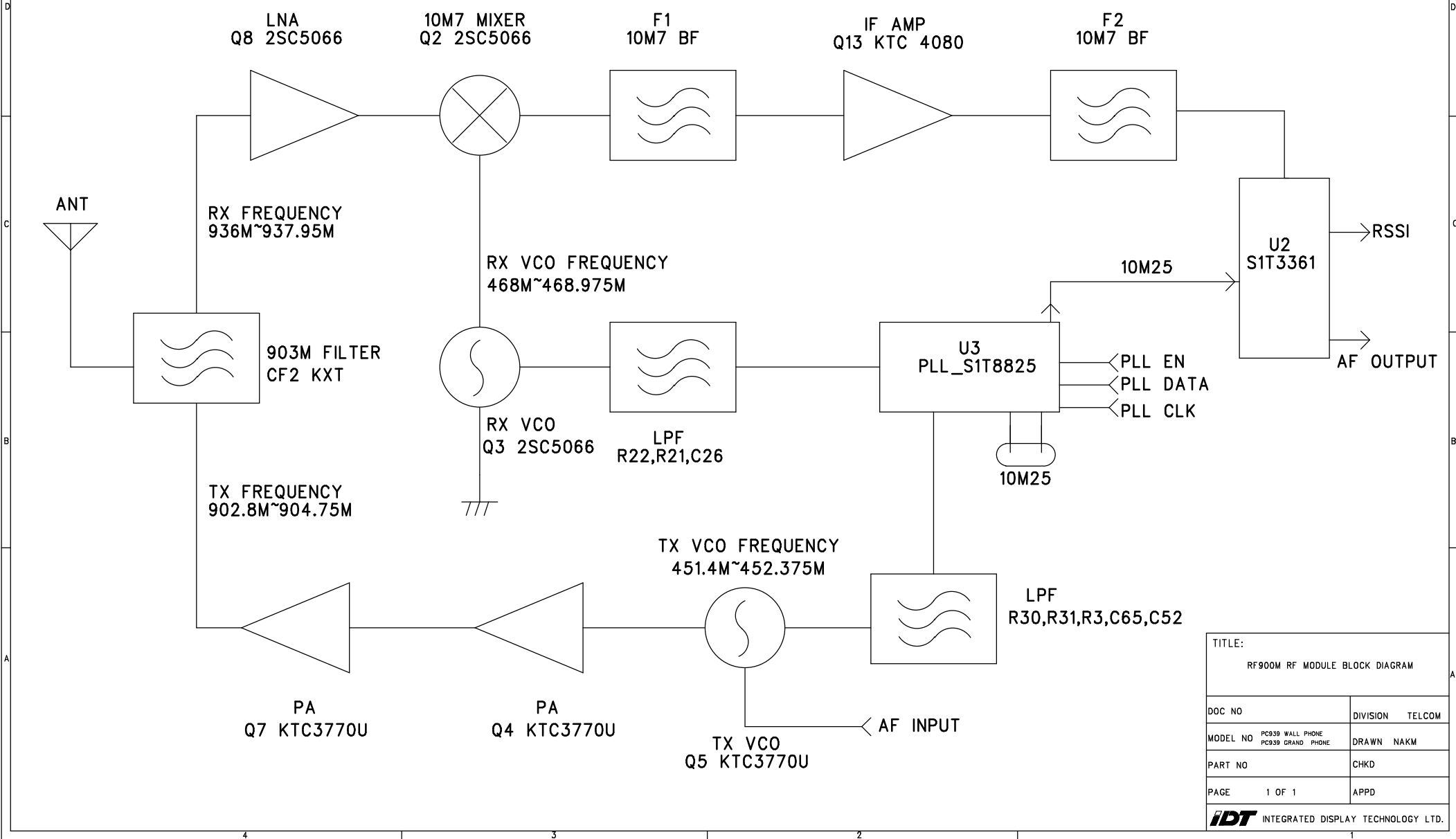




REV	DESCRIPTION	CHECKED BY	APPROVED BY	DATE
1	FIRST RELEASE	NKAM		MAR,07, 2005
2				
3				
4				

BASE UNIT RF900M RF MODULE BLOCK DIAGRAM



HAND SET RF900M RF MODULE BLOCK DIAGRAM

REV	DESCRIPTION	CHECKED BY	APPROVED BY	DATE
1	FIRST RELEASE	NKAM		MAR,07, 2005
2				
3				
4				

The diagram illustrates the internal components and signal paths of the RF module:

- Antenna (ANT)**: Connected to the input filter.
- RX Path**: ANT → 927M FILTER CF2 KXU → LNA Q8 2SC5066 → 10M7 MIXER Q2 2SC5066 → F1 10M7 BF → IF AMP Q13 KTC 4080 → F2 10M7 BF → U2 S1T3361 (RSSI) / AF OUTPUT.
- Tx Path**: AF INPUT → TX VCO Q5 KTC3770U → LPF R30,R31,R3,C65,C52 → PA Q4 KTC3770U → PA Q7 KTC3770U → TX FREQUENCY 925.3M~927.25M → 927M FILTER CF2 KXU → ANT.
- VCO and PLL Section**: RX VCO Q3 2SC5066 (RX VCO FREQUENCY 446.05M~447.025M) and TX VCO Q5 KTC3770U (TX VCO FREQUENCY 462.65M~463.625M) are connected to a common ground. A PLL (U3 PLL_S1T8825) is connected to both VCOs and provides control signals (PLL EN, PLL DATA, PLL CLK) to the PLL. The PLL also receives a 10M25 clock signal and outputs a 10M25 signal to U2 S1T3361.
- Filters**: Various filters (F1, F2, LPF, 927M FILTER) are used to filter the signals at different stages.

TITLE:			
RF900M RF MODULE BLOCK DIAGRAM			
DOC NO		DIVISION	TELCOM
MODEL NO	PC939 WALL PHONE PC939 GRAND PHONE	DRAWN NAKM	
PART NO	CHKD		
PAGE	1 OF 1	APPD	
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