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Radio Control Car Circuit Function Brief Description.

CONTROLLER:

The controller was supplied by 9v battery. When push the joy stick, the Integration Block “PT8A977BP” will active and generate the information code. At the same time, Q1 and CY1 will generate the 27.145MHz frequency. The information code generate by integration block “PT8A977BP” will be outputted by PIN 8. Information from PIN8 will be bridged from R1 to Q2. Then joined together with 27.145MHz frequency and finally be outputted to Q2. Q2 will process the mixing ,amplitude modulation and power amplification. The high frequency amplitude modulation will be bridged by C5,L3 and finally transmitted to the air.

CAR:

The car was supplied by 12V/14.4V battery. The High Frequency Resonance Circuit formed by C6? C7? C8? Q13? L1? T1 will be tuned in 27.145MHz. C5 will bridged every kind of High Hrequency Wave(wave received by the car antenna) to the High Frequency Resonance Circuit. Because the High Frequency Resonance Circuit was tuned in 27.145MHz, the other High Frequency Wave will be restrained and filtered out. Also the High Frequency Resonance Circuit will analyze the code from the high frequency wave. C11 will bridged and outputted the analyzed code into the PIN14 of the Integration Block “PT8A977BP”. Finally, the Integration Block “PT8A977BP” will process the code and analyze the function and command the Circuit to act the corresponding function. For example, if the Integration Block “PT8A977BP” analyze the code is the forward function code. It will command the Circuit to act the forward function. The Motor Drive Circuit will be responsible for all the information released by Integration Block “PT8A977BP”. The M1 will respond to forward and backward function. And M2 will respond to left and right function. The M2 Drive Circuit was supplied by power-regulated Integration Block U1.