

## Description of the R/C - system Car 76 Mc / RF - Unit

### Specification of the crystal controlled transmitter:

Power supply	8.4 Volts ( 6 NI - Cells )
Input current	up to 180mA
Modes	FM and AM
RF - output power	250 mW
Frequency band	76 Mc
FM - mode	1.65 Kc      PPM4
AM - mode	m = 90 %    PPM4

Crystal specification MPX - 1032

### RF - Unit Car - Transmitter part 76Mc :

The rf unit is a crystal controlled transmitter ( 4 stages) The oscillator operates on frequency trebling optional working in FM or AM mode. The mode options of this R/C system can be chosen by menu.

Working as a FM transmitter the crystal oscillator stage will be used for FM modulation .

Working as an AM transmitter the power amplifier stage is used for amplitude modulation and FM modulation is blocked .

The transmitter operating only in one of these modes (FM or AM).  
In both options the control signals are filtered to obtain lower bandwidth.

The rf - output signal is filtered and matched to the antenna.

The rf filter combination of the final stage are limiting the emission of harmonics to the required values.

The transmitter unit is able to perform control data types such as PPM 4 and PPM 7 , which can be chosen by the basic  $\mu$ P controlled RC - System.

All settings and adjustments are tested in order to obtain the requirements of the FCC regulations and best performance.

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