Technical description 24 PIC 2.4GHz Transmitter

ELECTRA ENTERPRISES

Video is fed into modulator,

where pre-emphasis is applied to the video signal.

Raw Data is applied to the microprocessor.

Output of MP FM-modulates D1,

which in conjunction with Q1 generates the Audio Subcarrier.

Optional an audio signal may be applied here via C22.

VCO1 generates the 2.4GHz signal which is

phase-locked to crystal Y1 in U1.

Video and audio-subcarrier are superimposed onto the low-pass-filtered

tuning-voltage from U1 and FM-modulate VCO1.

The output of VCO1 is attenuated and

passes through the monolithic 2.4GHz bandpass-Filter.

Voltage-regulator Reg1 is a low-dropout regulator

and stabilizes the supply voltages.