AST258 – TX Operating Elements

Transmitter:

- 1. Power supply: Use 9V DC adapter
- 2. Stereo audio input jack, inside circuit the stereo signal can be combined to single, to modulation carrier wave (FM).
- 3. Q105, LC (L108, D101, C127, R121, C128) composing voltage-control oscillator (VCO) and frequency modulation circuit.
- 4. Q102, R111 (transmission line) formed a x2 multiplier from the VCO to about 2.4GHz.
- 5. Q103, C146 (transmission line), C114, L104, C148 composing a power amplifier for RF as well as to avoid harmonic emanated.
- 6. FL1 is a B.P.F. centered at 2403.7MHz bandwidth of ±3MHz to avoid harmonic emanated.
- 7. RF out emanated by a single-core wire at ¼ wavelength of 2.4GHz.