

# **TX-115L**

Rev.2.3 1315

**Technical Data** 

## **Data Transmitter Modules inside POCSAG Encoder**

Sub-1GHz ISM Band Frequency Synthesized Transmitter



#### **Main Function**

- FSK Modulation
- 1 channel programmed frequency
- 1 POCSAG Encoder with message inside for option
- High power output up to 5W
- Wide operational frequency range
- Any 2 level data formats
- Data rate up to 6 Kbps.
- Wide operation temperature from -30°C -- +70°C
- Small Size: 95mm X 35mm X17mm
- BNC or SMA jack on board
- SMA or BNC jack with cable for option

### **Application**

- Remote Controls
- Home and building automation
- Paging system
- Telemetry

# -Specification-

|  | T   |           |            |            |
|--|---|-----------|------------|------------|
| Description  | TX-115L   |           |            |            |
| Frequency Range  | 315/434/868/915 MHz   |           |            |            |
| Frequency stability  | 10 ppm Typ. at 25℃.   |           |            |            |
| Channel spacing  | 12.5Khz or 25Khz.   |           |            |            |
| Data Rate  | From 512bps up to 6 Kbps. (deviation 4.5K).   |           |            |            |
| Modulation   | Direct 2level FSK.  |           |            |            |
| Deviation  | Typ 5K Max  |           |            |            |
| Spurious and Harmonics   | -60dBm.   |           |            |            |
| POCSAG Encoder   | 1 copcode 512/1200/2400bps Alphanumeric message   |           |            |            |
| Harmonic distortion  | <2.5% maximum at 1200 bps.  |           |            |            |
| RF Power output (Adjustable)   | 1-2 Watt  |           |            |            |
| Duty Cycle at 25℃ by 12V   | 100% at 1 W   | 70% at 2W | 60% at 3 W | 50% at 5 W |
| Antenna Impedance  | 50Ω   |           |            |            |
| Transmitter attack time  | <2mS for within 6K bps operation speed  |           |            |            |
| RF Output Jack   | Standard. BNC or SMA Female on Board  |           |            |            |
|  | Option. SMA or BNC Female + 110mm RG174A/U cable  |           |            |            |
| Power Supply   | DC 12V. (10V-13.8V).  |           |            |            |
| Temperature  | -30℃ — +70℃   |           |            |            |
| Current Drain (Max)  | 900mA   |           |            |            |
| Module Size  | 95mm X 35mm X 17mm  |           |            |            |
| Weight. (with BNC Jack)  | 40 grams.   |           |            |            |
|  |   |           |            |            |
|  |   |           |            |            |
| Transmitter attack time  RF Output Jack  Power Supply  Temperature  Current Drain (Max)  Module Size | <2mS for within 6K bps operation speed Standard. BNC or SMA Female on Board Option. SMA or BNC Female + 110mm RG174A/U cable DC 12V. (10V-13.8V)30℃ — +70℃ 900mA 95mm X 35mm X 17mm |           |            |            |

## I/O Connector and USB



### J1 Main I/O

Pin 1 Data (must check the data phase to meet receivers)

Pin 2 GND

Pin 3 DC 12V + (max 1A)

Pin 4 PTT Low for TX active

### J2 Mini USB

Via USB to Programming for Frequency and POCSAG Code with message ..etc.

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