

## TK-8102H (K2) Specifications

### 1. General

|                       |                                        |
|-----------------------|----------------------------------------|
| Frequency Range       | 485 to 512 MHz                         |
| Number of Channel     | 4ch                                    |
| Channel Spacing       | 25 kHz (Wide) / 12.5 kHz (Narrow)      |
| Type of Emission      | 16K0F3E (Wide) / 11K0F3E (Narrow)      |
| Power Supply Voltage  | 13.6V DC Nominal                       |
| Antenna Impedance     | 50 $\Omega$ Nominal                    |
| Operating Temperature | -30 °C to +60 °C                       |
| Dimension             | W. 161 mm $\times$ D.160.0 mm H. 43 mm |

### 2. Receiver

|                             |                                              |
|-----------------------------|----------------------------------------------|
| Conversion Type             | Double Conversion Super-heterodyne           |
| Intermediate Frequencies    | 1st 49.95 MHz<br>2nd 450 kHz                 |
| Sensitivity (12dB SINAD)    | -118 dBm (Wide) / -116 dBm (Narrow)          |
| Spurious & Image Rejections | 75 dB Minimum                                |
| Inter-modulation Rejection  | 70 dB Min. (Wide) / 60 dB Min. (Narrow)      |
| Adjacent Channel Rejection  | 75 dB Min. (Wide) / 65 dB Min. (Narrow)      |
| Hum and Noise               | 45 dB Min. (Wide) / 40 dB Min. (Narrow)      |
| Audio Output Power          | 4.0 W Minimum (5 % distortion / 8 $\Omega$ ) |
| Frequency Stability         | $\pm 2.5$ ppm                                |
| Current Consumption         | 0.4 A Std-by<br>1.0 A Operating              |

### 3. Transmitter

|                                    |                                               |
|------------------------------------|-----------------------------------------------|
| Output Power                       | 25 – 45 W(Variable)                           |
| Maximum Modulation                 | $\pm 5.0$ kHz (Wide) / $\pm 2.5$ kHz (Narrow) |
| FM Hum and Noise                   | 45 dB Min. (Wide) / 40 dB Min. (Narrow)       |
| Audio Distortion                   | 5% Maximum (Wide) / 5% Maximum (Narrow)       |
| Mic Sensitivity                    | 5 mV Nominal                                  |
| Spurious and Harmonics Attenuation | 65 dB Minimum                                 |
| Frequency Stability                | $\pm 2.5$ ppm                                 |
| Current Consumption                | 14.0 A Maximum at 45 W output                 |