

4031A-U01

1W POWER AMPLIFIER

Digital TV development & production facilities

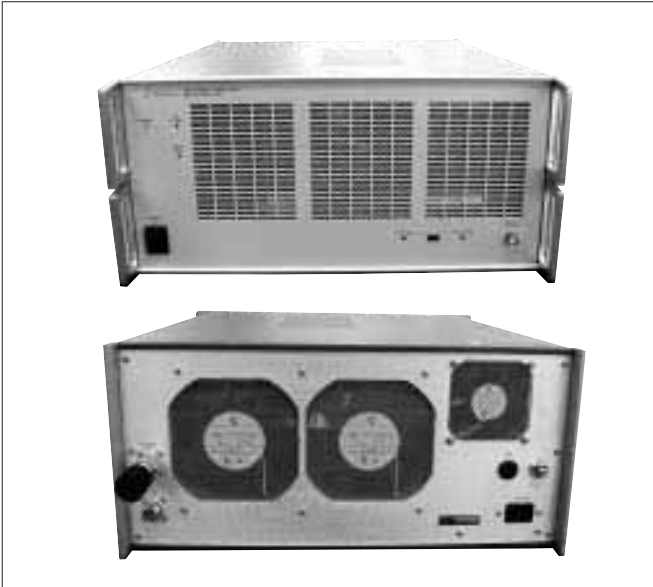
Digital TV development & production facilities

RF Capture system

Analog TV development & production facilities

Video & audio signal generator/Multi-signal generator

Line instruments, accessories & other reference data



General

This unit is 1W output wide band power amplifier corresponding to terrestrial digital broadcasting system.

Composition

| | |
|---|---|
| Main Unit | 1 |
| Dimensions | 425(W) × 199(H) × 530(D) mm (Excluding projections) |
| Weight | Approx. 25 kg |
| Accessories | |
| Power Cable (Including 3pin 2pin converter) | 1 |
| Rack Mount Adapter | 1set |
| Instruction Manual and Test Result Sheet | 1 |
| Power Source | |
| Input Voltage Allowable Range | : AC90V ~ AC250V (50Hz/60Hz) |
| Power Consumption | : Approx. 450VA |
| Operating Environment | |
| Temperature | : +5 ~ +40 |
| Humidity | : 45% ~ 85%RH (No dew generation) |

Rating

- **Input/Output Impedance**
50 (Unbalanced) N-R Connector
- **Input/Output Center Frequency**
473MHz ~ 767MHz
- **Input Level**
0dBm Typ.
- **Output Level**
+30dBm Max

Performance

- **Input Level Range**
0 dBm ± 4dB (At AGC working)
- **Output Level Deviation by Temperature**
± 1.0dB (At AGC working, frequency is fixed)
- **Frequency Response within Band**
Within 1dBp-p (At fo ± 3.5MHz)
- **Spurious (Harmonics)**
Less than - 40dBc (At output level of +30dBm)
- **Spurious (Non-harmonics)**
Less than - 60dBc (At output level of +30dBm)
- **2-signal 3rd Distortion (IM3)**
Less than - 60dBc (+27dBm per 1 wave)
- **2-signal 2nd Distortion (IM2)**
Less than - 55dBc (+27dBm per 1 wave)

Performance Example

At the time of ideal ISDB-T signal 1 wave input (767MHz, MODE3, 64QAM, GI 1/8), output power : +30dBm, spectrum mask break point : Less than - 50dB (fo ± 4.36MHz).

Spectrum analyzer setting : RBW = 10KHz, VBW = 300Hz.