



PRODUCT INFORMATION SHEET

Component TR6000 AM Radio Transmitter for Travelers' Information / Highway Advisory Radio Applications (FCC Part 90)

Part Number Model HQ5.0

Image



Front



Back

Description

- Integral 5000 Hz filter produces full-bandwidth audio. The filter is defeat-able to accommodate addition of external audio processing for enhanced loudness, clarity and range.
- 0-10-watt operation, Class D, high efficiency output; internal components rated to 3 times operating wattage, utilizing 2 output devices.
- Made in the USA; Federal Communications Commission certified for Travelers Information Service in the United States under Part 90.242., Certification Number B7MTR-6000TIS-WB.
- IPC-610 certified.
- Manufactured in compliance with Class-3 wave solder standards.
- Approved for military and federal agencies use on 510-530 kHz, 1610-1710 kHz - Certification: J/F 12/07677.
- Integral LED wattage and VU reference meters.
- Remote broadcast monitoring via output control relay.
- Remote transmitter control relay.
- Synthesized frequency selection,
- Defeat-able LED operation to save power.
- Internal monitor speaker with volume control driven by detector circuit to provide positive modulation indication.
- 24V DC, fully regulated power supply.
- Frequency range: 530 to 1710 kHz AM.
- Frequency: factory-set (specify).
- Frequency stability +/-20 Hz.

All products described are subject to availability based on manufacturing capacity and shipping dates. While every effort has been made to ensure the accuracy of all information, ISS does not accept liability for any errors or omissions and reserves the right to change information as needed. These specifications may be changed without notice.

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- Continuously adjustable power and audio modulation controls, externally accessible on front panel.
- Tunable to European 9kHz and other channel spacing formats.
- Tunable series filter on RF output.
- Audio distortion: less than 1.2%, 100 Hz to 5 kHz.
- Audio frequency response: +/- 3 dB 50 Hz-12,000 Hz; +/- 3 dB 50 Hz - 5000 Hz with TIS filter.
- Noise level: 70 dB below 95% modulation level, 100 Hz to 5 kHz.
- Modulation: 99%, -40 dB to +20 dB.
- Temperature: -40 to +85 degrees Celsius.
- Humidity: 95% (non-condensing).
- External audio (balanced), power and synchronization inputs.
- Relays for external control of power and to monitor audio.
- External PL-259 UHF style RF output.
- Spurious Emissions:
 - 10.2-20 KHz – greater than 25 dB below unmodulated carrier.
 - 20-30 KHz – greater than 35 dB below unmodulated carrier.
 - 30-60 KHz – greater than [5+1 dB/kHz] below unmodulated carrier.
 - 60 KHz + – greater than 65 dB below unmodulated carrier.
- Harmonic attenuation: greater than 51 dB below carrier.
- 1 rack unit.
- Slim-line design (1.75" height, 17" width, 9" depth) and 4 pounds.
- Power supply: input 90-265 VAC; output 24 VDC.
- Mean time between failure - in excess of 60 years.
- Estimated product life = in excess of 30 years.

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