



TYPE 356 RECEIVER

The Type 356 Receiver is a wideband unit designed for RFI and EMI detection in the frequency range of 1 kHz to 900 kHz. The receiver covers this frequency range in a single band. Selectable IF bandwidths of 1 kHz, 6 kHz, 20 kHz, or 50 kHz have been provided to facilitate the detection of both wideband and narrowband signals. The frequency response of the audio amplifier is extended to 50 kHz to match the widest IF bandwidth for use with an impulse generator. An FM discriminator with a rear-panel video output operates continuously in all IF bandwidths

A calibrated metal tape is used as the tuning dial. This tape is 25 inches in length to provide good resolution over the receiver's wide 900-kHz tuning range.

This versatile receiver has been designed using solid-state devices exclusively as active elements. It, therefore, exhibits high reliability and low power consumption.

PRELIMINARY SPECIFICATIONS

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| Frequency Range | 1 kHz to 900 kHz (lower band limit 500 Hz) |
| Types of Reception | FM, AM, SSB, CW, MCW, and FSK |
| Noise Figure | Less than 5 dB |
| Sensitivity (50-ohm input impedance and 1-kHz IF bandwidth) | CW and FSK, 1 kHz to 10 kHz: 5 μ V for 20 dB (s plus n)/n CW and FSK, 10 kHz to 600 kHz: 0.5 μ V for 20 dB (s plus n)/n MCW and AM, 50 kHz to 600 kHz: 1 μ V for 10 dB (s plus n)/n |
| Input Impedance | 50 ohms or 1000 ohms, selectable by rear- panel switch |
| Input Attenuator | 0 dB, -20 dB, -40 dB, or -60 dB selectable by front-panel switch |
| Maximum Input Level | 1V, rms, with input attenuator in -60 dB position |
| IF Bandwidths | 1 kHz, 6 kHz, 20 kHz, or 50 kHz, selectable by front-panel switch |
| Image Rejection | 70 dB, minimum |

PRELIMINARY SPECIFICATIONS (Continued)

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| IF Rejection | 60 dB, minimum |
| Dynamic Range | AGC or Manual: 55 dB, minimum |
| BFO | Five separate BFO's: One variable ±7 kHz by front-panel control and four crystal controlled to provide zero beat with IF frequency, a 5.5-kHz beat note, and upper or lower sideband reception of SSB signals. |
| Incidental FM | Less than 10 Hz peak deviation |
| Outputs | Seven: front-panel phone jack (2000 ohms, nominal); rear-apron audio, 6 mW (600 ohms, balanced); local oscillator output; IF output, AM detector output; signal monitor output; FM video output |
| Audio Bandwidths | Normal (100 Hz to 50 kHz) or narrow (825 Hz to 1175 Hz), selectable by front- panel switch |
| Input Power | 115/230 Vac, 50-400 Hz, at approximately 5 watts |
| Size | 19 inches wide, 3.5 inches high, and 19.5 inches deep |
| Weight | 20 lbs., approximately |

PRICE: \$3,500.00

FOB Rockville, Maryland.

1/28/69