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# Television Demodulator

## TV1350



TV1350.


Features

› **Specs**

Ordering Information

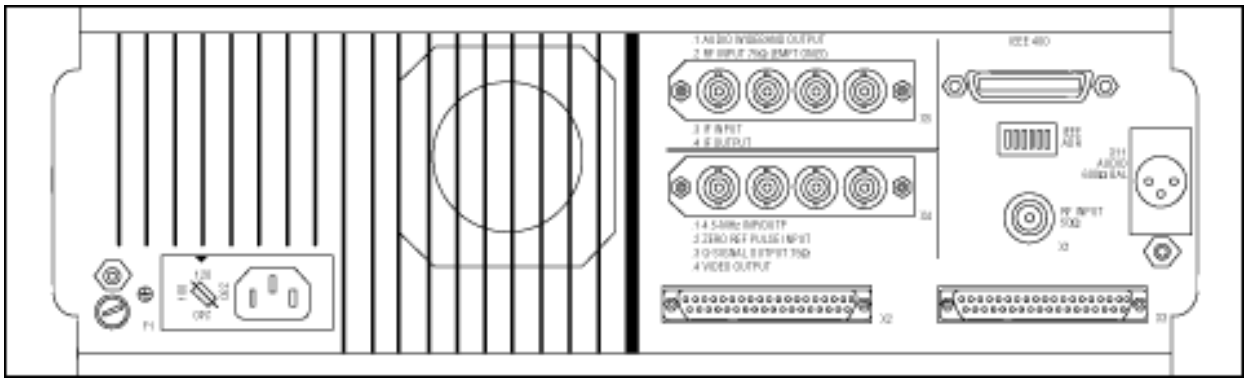
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### Characteristics

| | TV1350 Television Demodulator |
|---|---|
| Frequency Range | Bands I, II, III, IV/V, cable channels from 54 to 880 MHz for HRC or IRC, 38.9 and 45.75 MHz IF |
| Channel Selection | Manual or remote entry of channel number, automatic search or IEEE-488 bus (optional). Frequency Processing Synthesizer |
| Frequency Processing | By synthesizer |
| Frequency Error | ≤±2.5 kHz ≤±30 kHz (AFC) |
| Inputs | |
| RF | Type N female, 50 Ohm |
| RF | BNC female, 50 and 75 Ohm |
| IF | BNC female |
| Input Voltage Range | |
| RF | 0.15 to 30 mV or 0.5 to 100 mV, switchable |
| IF | 5 to 100 mV |
| Return Loss | |
| IF | ≥20 dB |
| 50 Ohm, RF | ≥12 dB, <300 MHz; ≥10 dB, >300 MHz |
| 75 Ohm, RF | ≥8 dB |

| | |
|---|---|
| RF Input Attenuation | 0/10/20 dB, automatic or manual adjustment |
| Noise Figure | ≤9 dB, VHF; ≤12 dB, UHF; (with RF input attenuation 0 dB) |
| Video S/N Ratio rms measurement, CCIR-weighted, HP 10 kHz, ref. to black-to-white transition | ≥60 dB (3 mV input level) ≥64 dB, (10 mV input level and reduced IF gain) |



TV1350 Rear Panel.

### Video Channel

**Non-linearity -** ≤2% differential gain, ≤2° differential phase, 10 to 75% modulation depth, synchronous detection.

**Chrominance/Luminance Delay -**
≤±20 ns (via IF input 1).
≤±25 ns (w/o SAW filter). Additional ripple of SAW filter ≤±50 ns.

**Tilt (50 Hz) -** ≤0.5%.

**Gain Control -** Automatic or manual, ≥34 dB dynamic range, typ. 40 dB, plus 2 x 10 dB input attenuation for TV1350.

### Audio Channel

**Intercarrier Frequency -** 4.5 MHz.

**Intercarrier S/N -** ≥46 dB 0-4 MHz, sine modulation; ≥52 dB without vision modulation.

**Frequency Response -** ≤±0.5 dB flatness, referred to 50 µs de-emphasis.

**Harmonic Distortion -** ≤1%, typ. 0.5%, at ±50 kHz deviation

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and 5 kHz modulation frequency.

**Stereo Crosstalk -** Down ≥36 dB.

**Channel Crosstalk -** Down ≥70 dB.

#### Outputs

**Video In-phase -** 1 $V_{p-p}$, CVS with standard modulation; 75 Ohm; BNC front and rear panel connectors.

**Video Quadrature -** 1 $V_{p-p}$ with standard modulation and 90° phase shift of switching carrier; 75 Ohm; BNC front and rear panel connectors.

**IF Output -** 200 mV rms ±3 dB; 50 Ohm; BNC rear panel connector.

**Audio Output -** +6 dBm ±0.5 dB, with ±30 kHz deviation and 500 Hz modulation frequency.

#### Front Panel Indication

**Analog Meter -** Input level with marking of optimal level range; deviation of sound (50 kHz and 100 kHz fsd); marker for correct video output level.

**LEDs -** Selected channel, no video carrier, no sound carrier, no pilot and stereo.

**Zero Reference Pulse -** For checking of residual carrier, field-repetitive, can be enabled in lines 15 to 328 (factory-set) of field blanking interval or triggered by external pulse.

**Error Referred to CVS in Case of Synchronous Detection -** ≤1.5%.

**Loudspeaker -** Front panel volume control.

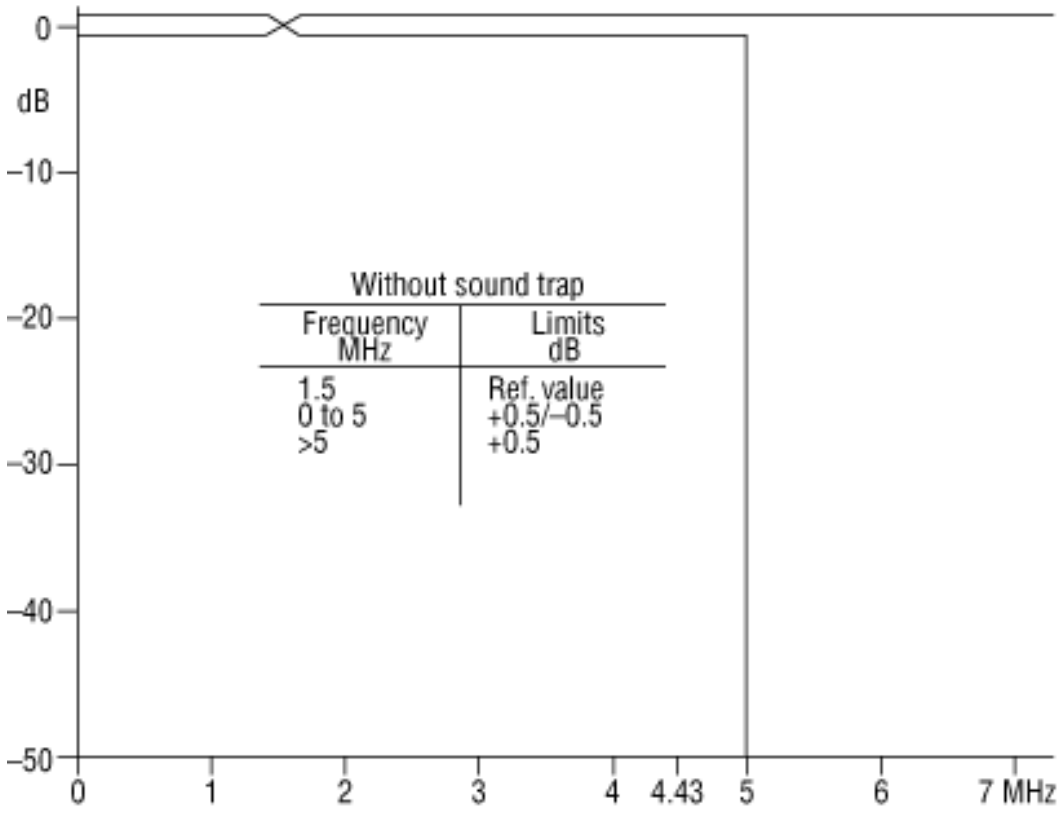
**Power Supply -** 110/120/220/240 V AC ±10%, 47-63 Hz.

**Temperature -**
Rated: +40°F to +115°F (+5°C to +46°C).
Operating: +32°F to +115°F (0°C to +46°C).
Nonoperating: -40°F to +158°F (-40°C to +70°C).

### Physical Characteristics

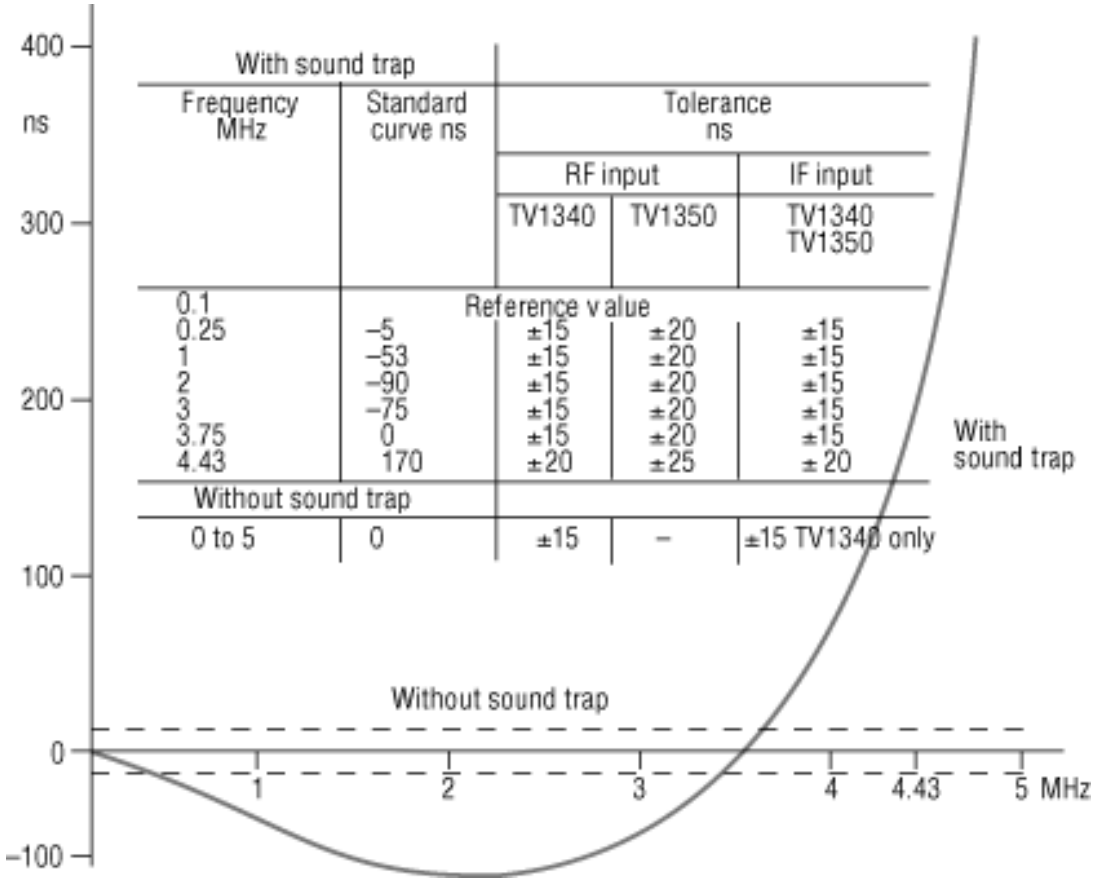
| Dimensions | mm | in. |
|---|---|---|
| Height | 147 | 5.7 |
| Width | 450 | 17.7 |

| | | |
|---|---|---|
| Depth | 525 | 20.7 |
| **Weight** | **kg** | **lb.** |
| Net | 16 | 36 |

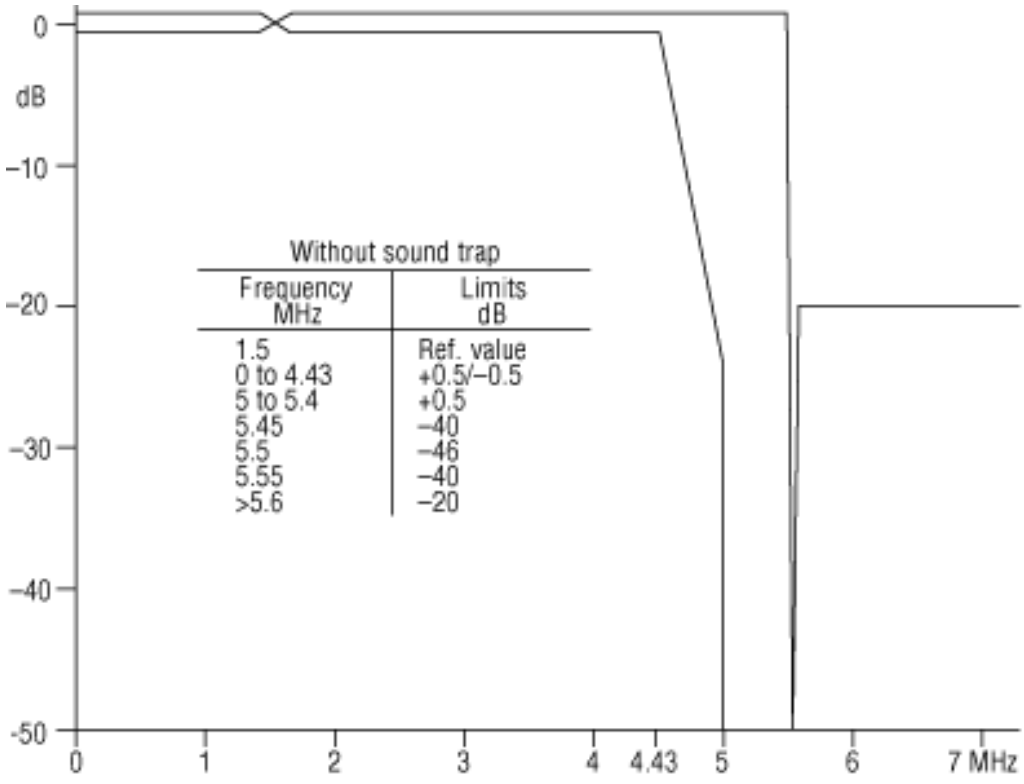



Tolerance of overall amplitude characteristic (RF, IF, VF) without sound trap.

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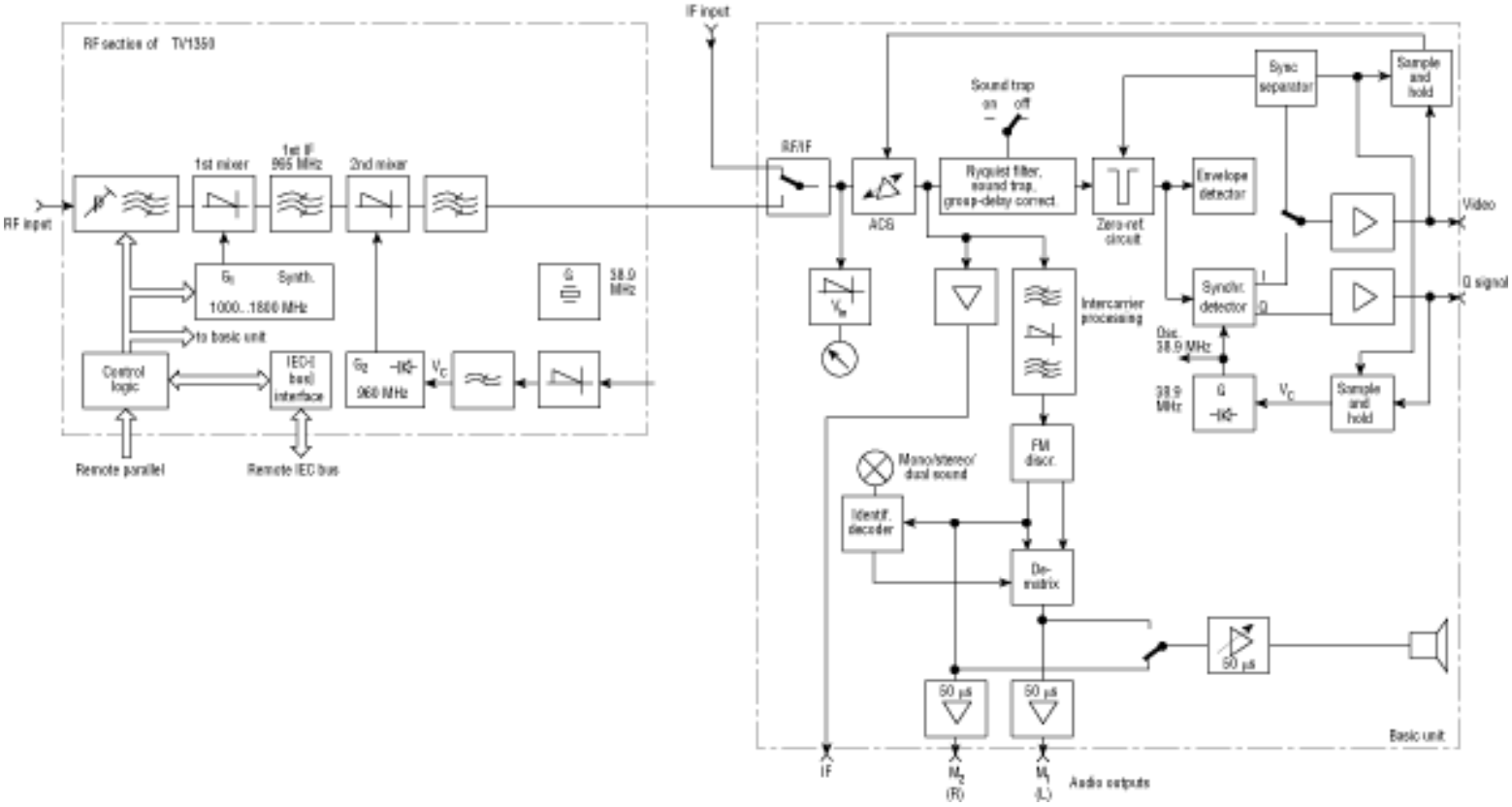



Group-delay characteristic of TV1350, curve with sound trap, dashed line for operation without sound trap. Additional ripple with SAW filter ≤±30 ns.




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Tolerance of overall amplitude characteristic (RF, IF, VF) with sound trap. TV1350 only: Additional ripple with SAW filter ≤±0.3 dB.




Functional diagram of TV Test Receiver TV1350.


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CE (TV 1350 only)

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