

TANDBERG

TR 2040

Technical data

It is Tandberg's policy to improve products as new techniques and components become available. Tandbergs Radiofabrikk A/S therefore reserves the right to change specifications at any time.



AUDIO SECTION

***POWER OUTPUT:** Average continuous sinewave power is 40 watts minimum RMS per channel, both channels driven into 8 ohms load, from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion from 1/4 watt to 40 watts as specified herein.

Power output DIN 45500: 2 x 72 watts

Power output: 2 x 65 watts
continuous, both channels driven into 4 ohms load at 1 kHz, 0.15% distortion.

Power output: 2 x 50 watts
continuous, both channels driven into 8 ohms load at 1 kHz, 0.09% distortion.

Load impedance: 4-16 ohms

***TOTAL HARMONIC DISTORTION:** Maximum 0.09% at any power from 1/4 watt up to rated power in 8 ohms load.

Intermodulation, IHF and DIN 45500: Less than 0.09%

Damping factor at 20-20,000 Hz: 50 at 8 ohms

Frequency response: 8-50,000 Hz
Overall linear input at -1.5 dB

Bass control range: ± 15 dB at 50 Hz

Bass loudness: +9 dB 50 Hz

Treble control range: ± 15 dB at 10,000 Hz

Treble loudness: +3 dB at 10,000 Hz

LOW filter: -3 dB at 70 Hz
(-12 dB/octave)

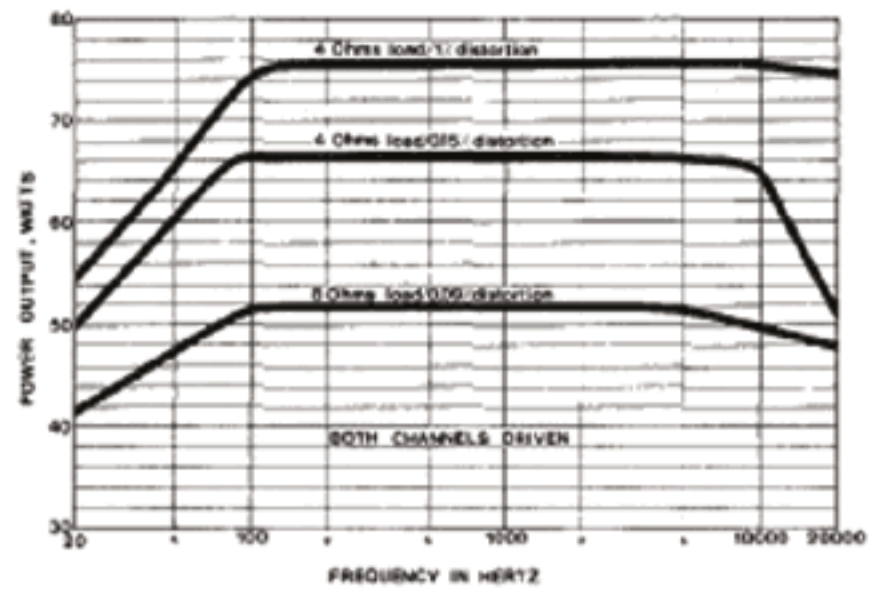
HIGH filter: -3 dB at 8,000 Hz
(-12 dB/octave)

Channel separation: Tape: 60 dB
at 1 kHz Phono: 60 dB

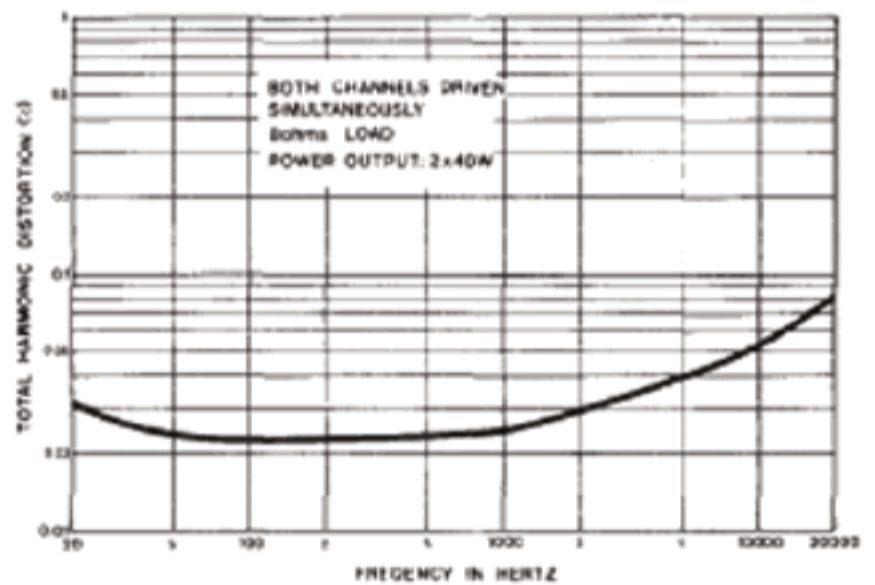
Signal/hum and noise ratio, IHF: reference, max. output, into 8 ohms load, shorted input, no filter network used.
Tape 1: 82 dB (input signal 190 mV)
Tape 2: 82 dB (input signal 190 mV)
Phono: 66 dB (input signal 2.8 mV)
Phono: 76 dB (input signal 10 mV)
Volume at minimum: 86 dB

Signal/hum and noise ratio, IHF: reference, max. output, into 8 ohms load, shorted input, A-network used.
Tape 1: 94 dB (input signal 190 mV)
Tape 2: 94 dB (input signal 190 mV)
Phono: 75 dB (input signal 2.8 mV)
Phono: 86 dB (input signal 10 mV)
Volume at minimum: 95 dB

*Measured according to FTC rules.



POWER OUTPUT VERSUS FREQUENCY



DISTORTION VERSUS FREQUENCY

Signal/hum and noise ratio, DIN 45500: reference 50 mV, 8 ohms
Tape 1: 61 dB (input signal 190 mV)
Tape 2: 61 dB (input signal 190 mV)
Phono: 60 dB (input signal 2.8 mV)
Phono: 62 dB (input signal 10 mV)

Sensitivity: at maximum power output, in 8 ohms load
Tape 1: 190 mV (input imp. 15-27 k ohms)
Tape 2: 190 mV (input imp. 15-27 k ohms)
Phono: 2.8 mV (input imp. 47 k ohms)

Maximum input signals: 0.15% distortion at 1 kHz
Tape 1: 35 V
Tape 2: 35 V
Phono: 90 mV

Output of TAPE socket: unloaded
250 mV (output imp. 33 k ohms)

US Models: 800 mV (output imp. 4 k ohms)

Output from PHONES: unloaded
Max. 20 V (output imp. 160 ohms)

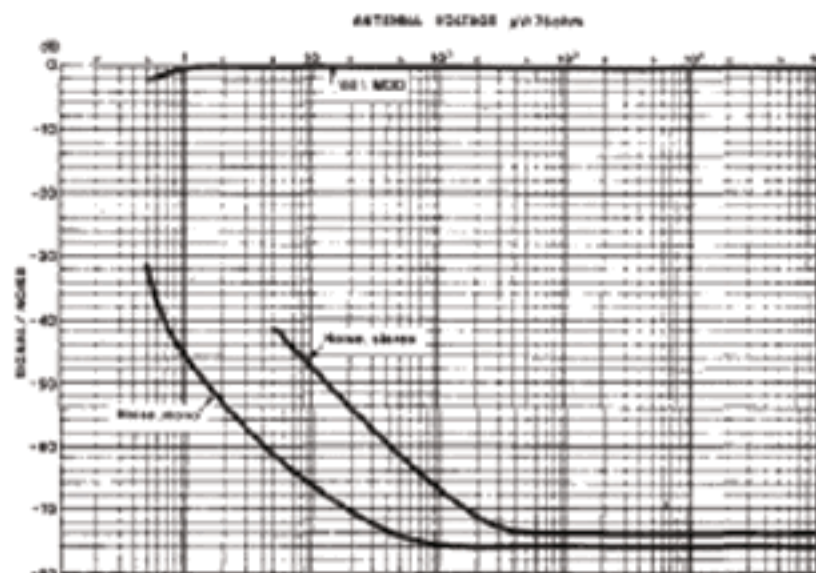
FM SECTION

Specifications according to IHF-T-200, 1975 (IEEE std. 185, 1975)

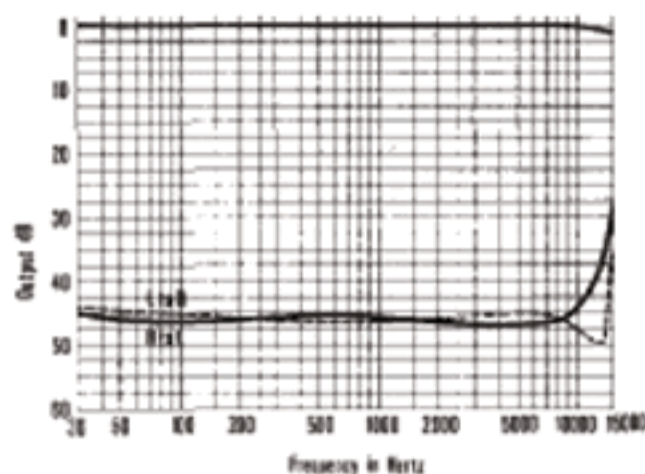
| | |
|--|---|
| Tuning range: | 87.5–108 MHz |
| Usable sensitivity: | MONO: 1,9 μ V/300 ohms (10,8 dBf) |
| 50 dB quieting sensitivity: | MONO: 3,5 μ V/300 ohms (16,2 dBf) STEREO: 40 μ V/300 ohms (37,3 dBf) |
| Signal-to-noise ratio at 65 dBf (1 mV/300 ohms): | MONO: 76 dB STEREO: 74 dB |
| Muting threshold: Muting hysteresis, 6 dB | MONO: 6 μ V/300 ohms (20,8 dBf) |
| Stereo threshold: Stereo hysteresis, 8 dB | 15 μ V/300 ohms (28,8 dBf) |
| Frequency response :- 30 Hz–15 kHz | MONO: +1, -2 dB STEREO: +1, -2 dB |
| Distortion at 50 dB quieting: | MONO: 0,6% STEREO: 0,9% |
| Distortion at 65 dBf : (1 mV/300 ohms) | MONO: 0,4% STEREO: 0,5% |
| Capture ratio: Selectively measured. | 1,5 dB |
| Adjacent channel selectivity: Dynamic | 10 dB at \pm 200 kHz |
| Alternate channel selectivity: Dynamic | 80 dB at \pm 400 kHz |
| Spurious response ratio: | Greater than 100 dB |
| Image response ratio: | Greater than 100 dB |
| IF response ratio (balanced): | Greater than 100 dB |
| AM suppression ratio: | Greater than 65 dB |
| Stereo separation: at 100 Hz–10 kHz (selectively measured). | Greater than 40 dB |
| Subcarrier product ratio: 19 kHz suppression: | 52 dB 55 dB |
| 38 kHz suppression: | 55 dB |

Specifications according to DIN 45301 and DIN 45500

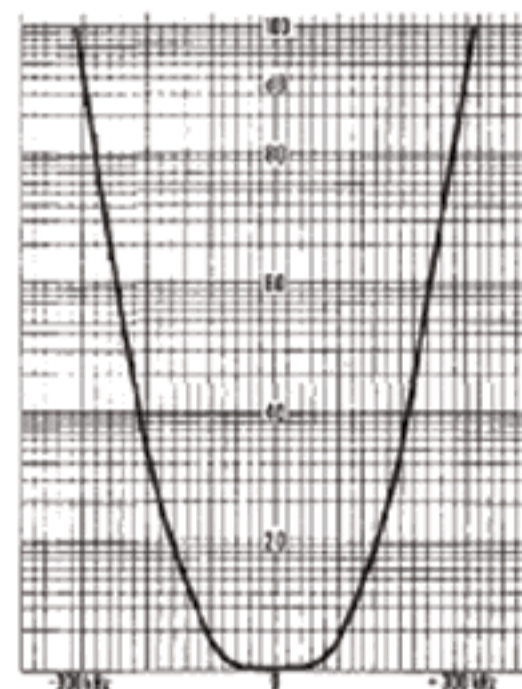
| | |
|---|------------------------------|
| Sensitivity mono, DIN 45301: at 26 dB signal/noise, RMS, dev. \pm 22,5 kHz. | 1,6 μ V/300 ohms |
| Sensitivity stereo, DIN 45500: at 46 dB signal/noise, RMS, dev. \pm 40 kHz. | 40 μ V/300 ohms |
| Signal/noise, Weighted, DIN 45500: quasi-peak, dev. \pm 40 kHz | MONO: 64 dB STEREO: 62 dB |
| Signal/noise, Unweighted, DIN 45500: RMS, dev. \pm 40 kHz. | MONO: 65 dB STEREO: 65 dB |
| Selectivity: carrier down | 80 dB at \pm 300 kHz |
| Total harmonic distortion: dev. \pm 40 kHz. | MONO: 0,2% STEREO: 0,3% |



FM SENSITIVITY CURVES
FOR MONO AND STEREO



FREQUENCY RESPONSE AND SEPARATION
VERSUS FREQUENCY



FM SELECTIVITY

GENERAL

| | |
|------------------------------|--|
| AC Power Requirement: | 120/220/240 V, 50/60 Hz |
| AC Power consumption: | 270 W (full power) 45 W (no signal) |
| Dimensions: | Width: 20 1/8" (51 cm) Height: 5 5/8" (14,5 cm) Depth: 12 5/8" + knobs 13/16" (32 cm + 2,1 cm) |
| Weight: | 21 lbs (9,6 kg) |