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Archiv Michael Otto

400

Mittelwellen/UKW-
Multiplex-Stereo-Empfänger/Verstärker
"Solid State" 60 Watt

Durch Verwendung von Spezial-Silicon-Transistoren in einer vollendeten Darlington-Schaltung bringt dieser Hochleistungs-Stereo-Empfänger/Verstärker SANSUI in die Mittelklasse. Der Verzerrungsfaktor von unter 1% bleibt konstant in allen Tonbereichen. Frequenzbereich von 20—50,000 Hz bei 8 Ohm, Dämpfungsfaktor über 24. Technische Besonderheiten sind der Selector-Schalter für A-B Lautsprechereinheiten, Automatik-Stereo-Schalter, Stereo-Trennwert von 35db und SANSUI's exklusiver Sicherungskreis, komplett mit Anzeige. Weitere Merkmale: Nahbereichsschalter für optimalen Mittelwellenempfang, Rauschfilter, Lautstärkekontrolle und DIN-Anschluß, Tonband-Monitor-Schalter und UKW-Stereo-Trennungskontrolle.

TECHNISCHE DATEN:

Verstärkerteil

Musikleistung (IHF): 60 Watt ± 1 db bei 4 Ω
Dauerleistung: 25/25 Watt ± 1 db bei 4 Ω
Harmonische Verzerrung: weniger als 1% im

Verhältnis zur Ausgangsleistung
Frequenzbereich: 25—50,000 Hz bei 8 Ω
Eingänge:
Phono: 2.2 mV
Tonband: 2.0 mV
Zusatzgeräte: 150 mV
Tonband-Monitor (Einzelbuchsen): 150 mV
Tonband-Monitor (DIN): 150 mV
Geräuschwert (IHF):
Phono: 70db
Zusatzgeräte: 80 db
Dämpfungsfaktor (IHF): 24 bei 8 Ω
Ukw-Empfangerteil
Bandbreite: 88—108 MHz
Empfindlichkeit: 2.0 μ V ± 3 db (20db unterdrückung)
2.5 μ V ± 3 db (IHF)
Trenngenauigkeit: größer als 45 db bei 98 MHz
UKW-Stereo-Trennung: größer als 35db
Mittelwellen-Empfangerteil
Bandbreite: 535—1,535 KHz
Empfindlichkeit (IHF): 20 μ V ± 3 db
Transistoren: 41
Dioden: 25
Netzspannungen: 100/117/220/240—50 oder 60 Hz
Leistungsaufnahme/85 VA max.
Abmessungen: Breite 419 mm Höhe 130 mm
Tiefe 309 mm
Gewicht: ca. 10 kg



TRANSISTOR AMPLIFIER: This new solid-state AM-FM receiver delivers full Hi-Fi performance from a really compact design.

First, silicon power transistors are used in a complementary symmetrical and Darlington circuit. Second, this circuit is complemented by an advanced SEPP-ITL, OTL circuit. Many silicon transistors are used in the audio frequency circuits.

One of the unpublicized shortcomings of a solid-state receiver is that distortion tends to increase at the actual listening levels, rather than at the higher powers. Model 400's unique solid-state circuitry keeps distortion below 1% at all power levels.

POWER BANDWIDTH: The power bandwidth ranges from 20 to 50,000 Hz at a rated power with a distortion factor of 1% or less. Voltage negative feedback in the power stage gives an unsurpassed damping factor of more than 24.

POWER TRANSFORMER: Use of a power transformer with excellent voltage regulation allows only a small difference between the music power (IHF) and the continuous power.

HEAT DISSIPATOR: Model 400's heat dissipator is of aluminum extrusion rather than the low-cost steel type, guaranteeing longer transistor life. Used a full 24 hours, the ambient temperature of the dissipator never rises more than 30°C above room temperature.

PROTECTION CIRCUIT: A combination of Sansui's exclusive S.C.R. transistor protection circuit and quick-acting fuses completely eliminate the danger of short-circuit damage to the power transistors.

FM RECEPTION: The FM Front-End, with silicon transistors and 3-gang variable condensers, minimizes the cross modulation, noise figure and other interference while handling strong local stations with unparalleled stability.

FM STEREO: The MPX-circuit, highly stable and reliable, displays the de-emphasis characteristic of +1dB to -3dB at 10,000 Hz, clearly reproducing the highest or lowest possible tones. Switching from FM Mono to FM Stereo

broadcasts is automatic. A stereo indicator changes in color if the dial crosses a station making an FM Stereo broadcast.

OTHER CONVENIENT FEATURES:

Highly sensitive AM ferrite bar antenna is positioned for easy handling. Local/Distance switch for optimum FM reception. Noise filter to eliminate scratch and surface noise. Loudness control automatically compensates audible balance at low listening levels. Stereo Head phones receptacle jack on front panel. DIN standard plug for convenient tape recorder hookup. Built-in FM AFC for stabilized FM reception. Tape monitor circuit. Built-in SCA filter. AC outlet at rear is controlled by power switch on front panel. 4-way AC voltage selector plug. Protection circuit indicator. A/B speaker selector switch. Meter tuning. Heavy flywheel for smoother tuning. FM and AM lead cable antennas. FM stereo separation control. Wood case optional for minimum cost. Beautifully-plated metal case. Functional arrangement of all switches and controls. Handsome design.

SPECIFICATIONS

AMPLIFIER SECTION

POWER OUTPUT:

MUSIC POWER (IHF): 60 Watts ± 1 dB at 4 ohms
MUSIC POWER (IHF): 50 Watts ± 1 dB at 8 ohms
CONTINUOUS POWER: 25/25 Watts ± 1 dB at 4 ohms
CONTINUOUS POWER: 20/20 Watts ± 1 dB at 8 ohms
HARMONIC DISTORTION: Less than 1% at rated output

POWER BANDWIDTH, IHF (AT 8 ohms): 20 to 50,000Hz

FREQUENCY RESPONSE:

AUX: 20 to 30,000Hz ± 1 dB
POWER AMPLIFIER SECTION: 15 to 50,000Hz ± 1 dB

INPUT SENSITIVITY (FOR RATED OUTPUT):

PHONO: 2.2mV ± 3 dB
TAPE HEAD: 2.0mV ± 3 dB
AUX: 150mV ± 3 dB

TAPE MONITOR (PIN): 150mV ± 3 dB

TAPE MONITOR (DIN): 150mV ± 3 dB

RECORDING OUTPUT (AT RATED OUTPUT):

REC OUT (PIN): 150mV ± 3 dB

REC OUT (DIN): 25mV ± 3 dB

HUM AND NOISE (AT RATED OUTPUT):

PHONO: Better than 70dB

AUX: Better than 80dB

CHANNEL SEPARATION (AT RATED OUTPUT):

PHONO: Better than 50dB

AUX: Better than 50dB

OUTPUT IMPEDANCE: 4 to 16 ohms

DAMPING FACTOR: Greater than 24 at 8 ohms

EQUALIZER:

PHONO: RIAA, NF Type
TAPE HEAD: NAB, NF Type

CONTROLS AND SWITCHES:

BASS CONTROL: 50Hz +10dB to -10dB
TREBLE CONTROL: 10KHz +10dB to -10dB
LOUDNESS CONTROL: 50Hz +8dB, 10KHz +5dB
 Volume control at -30dB
NOISE FILTER: Better than -10dB at 10KHz
MODE SWITCH: 1) STEREO 2) MONO
FUNCTION SWITCH: 1) AM 2) FM 3) FM AUTO
 4) PHONO 5) TAPE HEAD 6) AUX
SPEAKER SELECTOR: System A or B

TUNER SECTION

FM:

FREQUENCY RANGE: 88 to 108MHz
SENSITIVITY: 2 μ V ± 3 dB (20dB quieting)
SENSITIVITY: 2.5 μ V ± 3 dB (IHF Standard)
HARMONIC DISTORTION: Less than 1% (at 98MHz 100%, 60dB)
FREQUENCY RESPONSE: 30 to 20,000Hz +1, -3dB
SIGNAL TO NOISE RATIO: More than 60dB (at 98MHz 100%, 60dB)
SELECTIVITY: More than 45dB (at 98MHz 100%, 60dB)

dB)

IMAGE FREQUENCY REJECTION: More than 60dB (at 98MHz 100%, 60dB)

IF FREQUENCY REJECTION: 60dB (at 98MHz 100%, 60dB)

FM STEREO SEPARATION: More than 35dB (at 98MHz 100%, 60dB)

AM:

FREQUENCY RANGE: 535 to 1,605KHz
SENSITIVITY: 20 μ V ± 3 dB (IHF Standard)
IMAGE RATIO: More than 40dB (at 1,000KHz)
IF REJECTION: More than 45dB (at 1,000KHz)

TRANSISTORS AND DIODES

TRANSISTOR: 41

DIODE: 25

POWER REQUIREMENTS

Power Voltage: 100, 117, 220, 240 Volts, 50 to 60 Hz
Power Consumption: 85VA (Max.)

DIMENSIONS: (Excluding knobs, rubber stands and loopstick antenna)

WIDTH: 16 1/2"

HEIGHT: 5 1/4" (Excluding rubber stands)

DEPTH: 12 3/8" (Excluding knobs)

WEIGHT: 22.8 Lbs

Sansui

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SANSUI 60 W MODEL 400



SOLID-STATE AM/FM MULTIPLEX STEREO TUNER AMPLIFIER For the first time, a compact tuner amplifier capable of full stereo performance — Sansui's Model 400. From inception, the 400 was designed to overcome the big problem inherent in the performance of solid-state amplifiers — the increase in distortion at actual listening levels rather than the higher levels. Sansui engineering has kept the distortion factor at less than 1% throughout the 400's entire frequency range, enjoying full 60 watts of music power. Triple diffusion epitaxial planar silicon power transistors in a complementary symmetrical Darlington circuit, plus the adoption of an advanced SEPP-ITL, OTL circuit puts the 400's performance far beyond the capabilities of models of similar size. Result? Exceptional stereo and mono sound reproduction, plus an array of features expected only from larger, higher priced tuner amplifiers. A "must" for anyone who takes his music and stereo systems seriously.

SANSUI