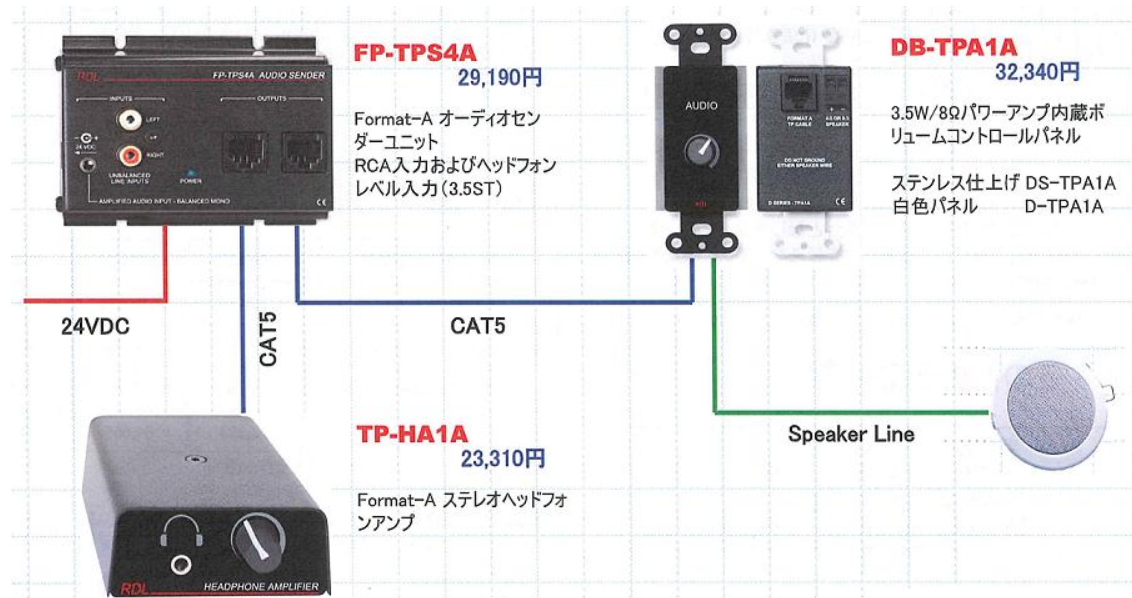


パワーアンプ内蔵ボリュームパネル

信号ラインは汎用の LAN ケーブルで接続可能



1. D(S,B)-TPA1A 3.5W パワーアンプ内蔵ボリュームパネル ¥32,400

- 壁面パネルに 3.5 W/8 Ω のパワーアンプが内蔵
- 壁面パネルに音量調整ボリューム付き
- D-TPA1A (パネルは白色)、DS-TPA1A (パネルはシルバー)、DB-TPA1A (パネルは黒色) の 3 種類
- 機器間の接続は CAT5 ケーブル
- 電源は FP-TPS4A から CAT ケーブル経由で供給
- 消費税込み価格

2. FP-TPS4A Format-A オーディオ・センター ¥29,190

- テレビ、コンピューター、タブレット等からのステレオ音声入力
- ヘッドホン端子(3.5ST)と RCA ステレオ入力
- モノラル平衡入力
- 2 系統のステレオ出力(RJ45)
- 最大電流容量: 500mA
- 消費税込み価格

3. TP-HA1A ステレオ・ヘッドホンアンプ ¥23,310

- 音量調整ボリューム付きステレオ・ヘッドホンアンプ
- 標準ヘッドホンに 25mW のパワー供給
- 電源は FP-TPS4A から CAT ケーブル経由で供給
- 消費税込み価格

パワーアンプ内蔵ボリュームパネルでスッキリ！

信号ラインは汎用のLANケーブルで接続可能



FP-TPS4A
29,190円

Format-A オーディオセン
ダーユニット
RCA入力およびヘッドフォン
レベル入力 (3.5ST)



DB-TPA1A
32,340円

3.5W/8Ωパワーアンプ内蔵ボ
リュームコントロールパネル

ステンレス仕上げ DS-TPA1A
白色パネル D-TPA1A

24VDC

CAT5

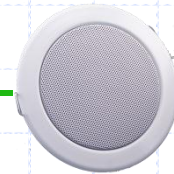
CAT5

Speaker Line



TP-HA1A
23,310円

Format-A ステレオヘッドフォ
ンアンプ



他にも多彩なコンポーネント
機器が揃っています。



RDL[®]
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

TWISTED PAIR FORMAT-A Models D-TPA1A, DS-TPA1A, DB-TPA1A 3.5 W Audio Power Amplifier



- 3.5 Watt RMS Audio Amplifier into 8 Ohms
- 6.5 Watt RMS Audio Amplifier into 4 Ohms
- Output Drives 4 or 8 Ohm Speaker
- Setting Level to Minimum Activates Energy-Saving Sleep Mode
- High-Efficiency Class D Operation
- VCA Level Adjustment for Scratch-Free Long Life
- Input and Power Connection on RJ45
- Connects to Format-A Sender using Twisted-Pair Cable
- Powered from RDL Twisted Pair Format-A Sender
- Speaker Output Connection on Detachable Terminal Block
- Ultra-Compact All Metal Construction
- Thermal and Short-Circuit Protection

The -TPA1A is part of the group of versatile wall-mounted products from Radio Design Labs. The standard mounting case can be directly fastened in North American electrical boxes or in RDL International wall boxes.

APPLICATION: The -TPA1A modules are two-pair audio amplifier modules compatible with RDL Format-A twisted pair products. Each -TPA1A receives stereo audio and 24 Vdc power through a rear-panel RJ45 jack. The left and right audio signals received on pairs B and C of the twisted pair cable are summed to mono and amplified. The amplified output level is set by an internal VCA which is controlled by a front-panel volume control. The VCA attenuator provides years of scratch-free gain adjustment.

The -TPA1A circuits are all designed for low power consumption. Amplification is provided by a high-efficiency Class D power stage with audio filtering tailored for crisp, pleasant audio clarity. The high-efficiency Class D output stage produces negligible heat for all levels of expected voice or music modulation. When the user reduces the audio level to minimum, the class D output stage is switched off. This sleep mode remains active until the user turns up the output level.

The output drives either a 4 Ohm or 8 Ohm speaker. The speaker cable connects to the module using a detachable terminal block.

The front panel does not include any illuminated indicators, making the -TPA1A ideally suited to installation in dark rooms or areas. Installation is simple and quick, requiring only the connection of the speaker leads and the twisted pair RJ45.

The -TPA1A may be fed and powered from any RDL Format-A sender, and is ideal in hospitality installations fed from a sender connected to a TV monitor (for example: FP-TPS4A Audio Sender from TV with fixed audio output level).

Use the -TPA1A wherever a single speaker user-adjustable wall mounted amplifier is needed. Combine the amplifier with other RDL Format-A products for a cost-effective, high-performance audio system.



D- SERIES Models D-TPA1A, DS-TPA1A, DB-TPA1A 3.5 W Audio Power Amplifier

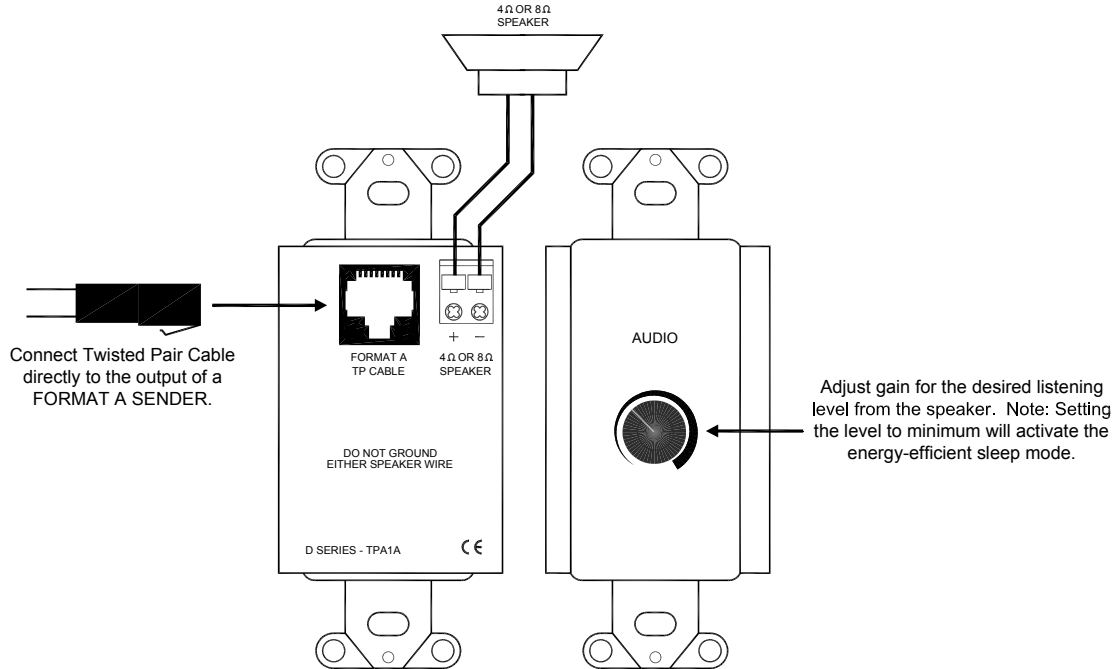
Installation/Operation



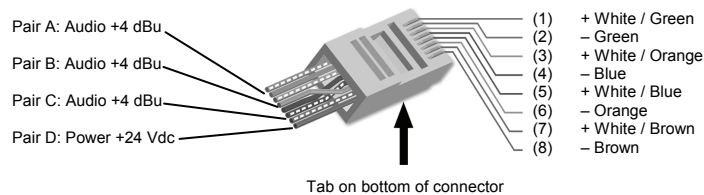
EN55103-1 E1-E5; EN55103-2 E1-E4; EN60065
Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice. This product is Professional Apparatus.

Mounting

The -TPA1A should be mounted in an RDL WB-1U wall box or equivalent. The ambient operating environment must not exceed 40 degrees C.



RJ45 Standard wiring



RJ45 conductor colors shown are for 568A standard. The 568B standard may be used if the connectors at both ends of the cable are wired identically.

TYPICAL PERFORMANCE

Input:	RDL Format-A
Input Connector:	RJ45
Gain Adjustment:	Single turn audio taper, VCA attenuator
Frequency Response:	50 Hz to 20 kHz (+/- 1.5 dB)
THD+N:	< 0.1% (@ 1 kHz, 1 W)
Noise:	< -70 dB (below 1 W RMS)
CMRR:	> 60 dB (50 Hz to 120 Hz)
Output Power:	3.5 W RMS (max., into 8 Ohms); 6.5 W RMS (max., into 4 Ohms)
Power Consumption:	45 mA (idle), 95 mA (1 W into 8 Ohms), 150 mA (1 W into 4 Ohms), 215 mA (3.5 W into 8 Ohms)
Sleep Mode Power Consumption:	< 0.3 W
Sleep Mode Enable:	Active at audio gain < -60 dB
Ambient Operating Environment:	0° C to 40° C Maximum; 20° C Recommended
Dimensions:	Height: 4.13 in. 10.49 cm; Width: 1.7 in. 4.32 cm; Depth: 2.15 in. 5.47 cm

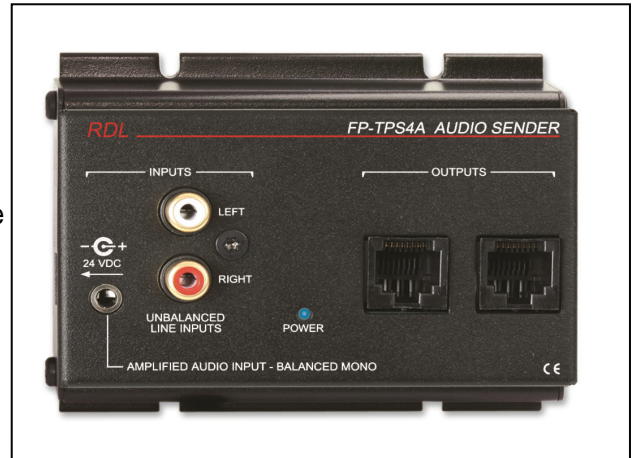


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SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

TWISTED PAIR FORMAT-A Model FP-TPS4A Format-A Two-Pair Audio Sender

- Format-A Sender from TV Fixed Audio Output
- Sends Left and Right Audio Channels
- Unbalanced Stereo Input from Fixed Level Audio Source
- Balanced Audio Input from Mono Amplifier
- High Quality Audio Distributed to Each RJ45 Output
- Two Format-A Outputs on RJ45
- Distributes Power to Connected Receivers
- Automatically Resetting Fuse for Output Voltage
- Ultra-Compact All Metal Construction



The FP-TPS4A is part of the group of versatile FLAT-PAK products from Radio Design Labs. The unique FLAT-PAK case can be directly screwed or bolted to cabinets or shelves. Optionally available rack-mounting accessories permit single or multiple FLAT-PAK module mounting.

APPLICATION: The FP-TPS4A is an RDL Format-A Audio Sender that accepts either a stereo line-level or 1 to 3 Watt mono amplified fixed-level signal, usually from a commercial hospitality equipped TV. The FP-TPS4A distributes the source signal to two Format-A output jacks to feed multiple Format-A receivers.

The input accepts either an unbalanced stereo or an amplified mono input. The FP-TPS4A sends the unbalanced Left and Right sources over balanced twisted-pair cables on pairs B and C. If a mono amplified signal is connected, the mono source is fed to both pairs B and C. Audio circuitry is active balanced for superior audio fidelity and low-noise performance.

The FP-TPS4A is normally mounted behind a TV where AC power is available. A 24 Vdc power supply, available separately, provides power to the FP-TPS4A and to the connected receiving modules. It is not necessary to connect power supplies to the connected receivers, facilitating installation. A front-panel blue LED is illuminated when the FP-TPS4A is receiving and distributing 24 Vdc to both RJ45 jacks. The distributed output dc voltage is short-circuit protected by an automatically resetting fuse. A power fault on either output jack causes the blue LED to extinguish.

The FP-TPS4A is ideally suited to guest room installations with bedside and restroom listening stations. The outputs are fully compatible with all RDL Format-A receivers.

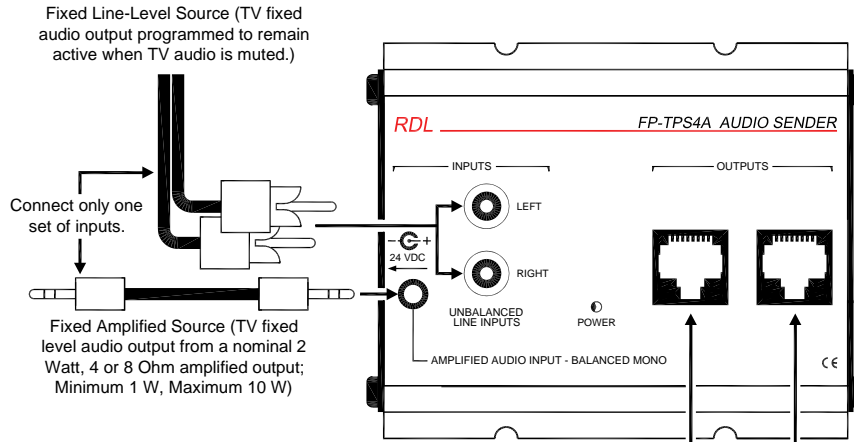
RDL FORMAT-A features superior audio performance that rivals or exceeds shielded wiring. Design simplicity, ease of installation, unsurpassed flexibility, automatic fused power, exceptional hum rejection, low noise, and low distortion provide designers and installers the optimum choice in economical twisted pair products.

FLAT-PAK™ SERIES
Model FP-TPS4A
Format-A Two-Pair Audio Sender

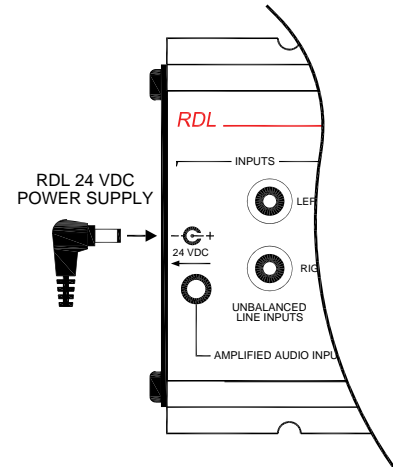
Installation/Operation

EN55103-1 E1-E5; EN55103-2 E1-E4; EN60065
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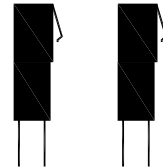
AUDIO CONNECTION



POWER CONNECTION

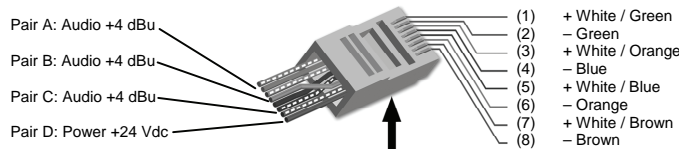


RECEIVER CONNECTIONS



Connect one or more FORMAT A Receivers to one or both OUTPUTS. (Maximum total connected receiver load: 500 mA)

RJ45 Standard Wiring



Tab on bottom of connector

RJ45 conductor colors shown are for 568A standard. The 568B standard may be used if the connectors at both ends of the cable are wired identically.

TYPICAL PERFORMANCE

Inputs (3): 20 kΩ unbalanced (2, left and right); 100 kΩ balanced (mono amplified)
 Input Connection: Phono Jack (Unbal.); Mini-jack (Bal.)
 Input Level: -10 dBV unbalanced; 1 W (8 Ohms) to 10 W (8 Ohms) balanced, 2 W nominal
 Format-A Signal Pairs Used (2): B, C
 Output: RDL TP Format-A
 Output Connection: RJ45
 Frequency Response: 10 Hz to 50 kHz (+/- 0.1 dB)
 THD+N: < 0.05%
 Noise below +4 dBu: < -85 dB
 Crosstalk: < -85 dB (10 Hz to 10 kHz); < -80 dB (10 kHz to 20 kHz)
 Headroom above +4 dBu: > 18 dB
 Indicator: Power (Input and outputs active)
 Power Connection: Power Jack (locking)
 Power Requirement: 24 Vdc @ 30 mA plus connected loads
 Maximum Load Current: 500 mA
 Dimensions: 4.15" (10.5 cm) L; 3.25" (8.6 cm) W; 1.68" (4.27 cm) H



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SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

TWISTED PAIR FORMAT-A Model TP-HA1A Format-A Stereo Headphone Amplifier

- Headphone Amplifier with User Level Control
- 25 mW Power into Standard Headphones
- Output on Standard Mini Jack
- Mounts to Any Flat Surface
- Input and Power Connection on RJ45
- Connects to Format-A Sender using Twisted-Pair Cable
- Powered from RDL Twisted Pair Format-A Sender
- RJ45 Loop-Thru for Connecting Additional Modules
- Protected by Automatically Resetting Fuse
- Ultra-Compact All Metal Construction



The TP-HA1A is part of the group of versatile Twisted Pair products from Radio Design Labs. The unique case can be directly screwed or bolted to cabinets, shelves or furniture.

APPLICATION: The TP-HA1A is a two-pair receiver and audio headphone amplifier compatible with RDL Format-A twisted pair products. Each TP-HA1A receives stereo audio and 24 Vdc power through a rear-panel RJ45 jack fed from a Format-A sender. The left and right audio signals received on pairs B and C of the twisted pair cable are amplified and fed to the left and right channels of the output 3.5 mm Mini-jack.

The front panel provides the headphone output jack and a single-turn user volume control. There are no illuminated indicators that could be distracting in dark locations, such as a hotel room. The audio input circuits feature very high common mode rejection and a high quality stereo headphone amplifier for superior audio fidelity and low-noise performance.

The TP-HA1A is ideally suited to guest room installations with bedside and restroom listening stations. The input is fully compatible with all RDL Format-A senders.

The TP-HA1A is equipped with two Format-A RJ45 jacks. Either jack may be used as the input. The other RJ45 may be used to connect an additional TP-HA1A or other Format-A receiver.

Installation is simple and economical. Standard twisted pair cable is used to connect a Format-A sender to the TP-HA1A. The base plate of the TP-HA1A has cutouts that allow installers to pre-wire the twisted pair cable with RJ45 connectors attached. The finished twisted pair cable/connector can be fed through the base plate prior to mounting. The base plate is mounted with two screws, the twisted pair cable is plugged in, then the cover plate is attached with one screw.

RDL FORMAT-A features superior audio performance that rivals or exceeds shielded wiring. Design simplicity, ease of installation, unsurpassed flexibility, automatic fused power, exceptional hum rejection, low noise, and low distortion provide designers and installers the optimum choice in economical twisted pair products.

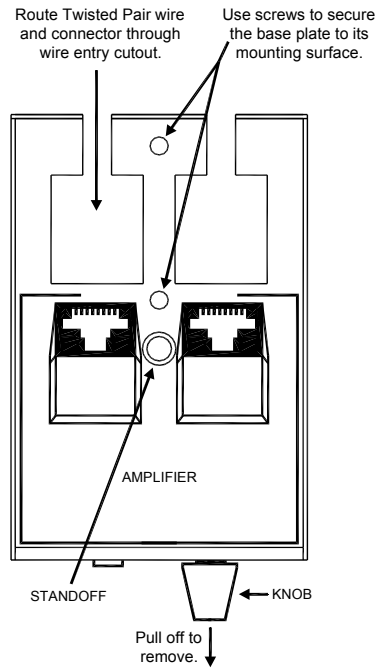
TWISTED PAIR FORMAT-A
Model TP-HA1A
Format-A Stereo Headphone Amplifier

Installation/Operation



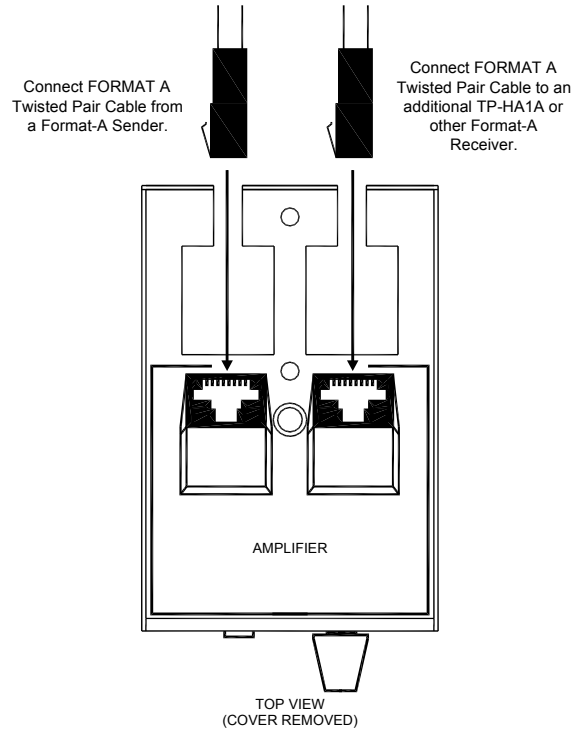
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MOUNTING DETAILS

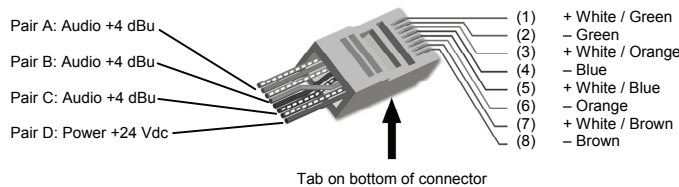


In the event of damage to the amplifier, it can be quickly replaced. Remove the knob and the standoff. Lift the amplifier out of the base plate. Fit the new amplifier in its place. Replace the standoff and knob.

WIRING CONNECTIONS



RJ45 Standard Wiring



RJ45 conductor colors shown are for 568A standard. The 568B standard may be used if the connectors at both ends of the cable are wired identically.

TYPICAL PERFORMANCE

Input:
Input Connection: RDL TP Format-A
Format-A Signal Pairs Used (2): RJ45 B, C
Format-A Output: RJ45 (loop-through)
Output: Stereo, 25 mW per channel (into 100 ohms)
Frequency Response: 10 Hz to 40 kHz (+/- 1 dB, into 100 Ohms)
THD+N: < 0.01% (1 kHz, 10 mW)
Noise: < -90 dB (maximum gain)
Crosstalk: < -85 dB (1 kHz); < -70 dB (20 Hz to 20 kHz)
Power Connection: RJ45 (power provided by Format-A sender)
Power Requirement: 24 Vdc @ 30 mA
Dimensions: 3.9" (9.92 cm) L; 2.57" (6.53 cm) W; 1.13" (2.87 cm) H

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