Specifications

XPA 2002-70V, XPA 2002-100V

Audio

Voltage gain
- XPA 2002-70V..... 57x (35 dB)
- XPA 2002-100V..... 81x (38 dB)

Crosstalk ..... 75 dB (typical) @ 1 kHz

CMRR..... 75 dB (typical) @ 1 kHz

Audio input

Number/signal type..... 2 balanced/unbalanced

Connectors..... (2) 3.5 mm captive screw connectors, 3 pole

Impedance..... >10k ohms unbalanced/balanced, DC coupled

Nominal level..... +4 dBu (1.23 Vrms), balanced

Maximum level..... +21 dBu (8.69 Vrms), balanced

Input sensitivity ..... +4 dBu (1.23 Vrms)

Input signal detection threshold..... -40 dBu ±3 dB, balanced

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

Audio output

Number/signal type
- XPA 2002-70V..... 2 channels 70 V
- XPA 2002-100V..... 2 channels, 100 V

Connectors..... (2) 5 mm screw lock captive screw connectors, 2 pole

NOTE: These connectors accept wires of 22 AWG to 12 AWG.

Load impedance
- XPA 2002-70V..... 25 ohms minimum
- XPA 2002-100V..... 50 ohms minimum

Amplifier type..... Class D

Output power
- XPA 2002-70V..... 200 watts rms per channel, 70 V, 1 kHz, 0.1% THD
- XPA 2002-100V..... 200 watts rms per channel, 100 V, 1 kHz, 0.1% THD

Frequency response ..... 20 Hz to 20 kHz, ±1 dB

THD + Noise..... 0.1%, 1 kHz, 3 dB below clipping

S/N..... 100 dB, 20 Hz - 20 kHz, unweighted

Damping factor
- XPA 2002-70V..... >100 @ 25 ohms
- XPA 2002-100V..... >100 @ 50 ohms

High pass filter
- XPA 2002-70V..... 80 Hz, 12 dB per octave rolloff for 70 V line output (switch selectable)
- XPA 2002-100V..... 80 Hz, 12 dB per octave rolloff for 100 V line output (switch selectable)

Control/remote — amplifier

Control port ..... (1) 3.5 mm captive screw connector, 2 pole

Pin configurations

Standby power control (contact closure) ..... Pin 1 = Gnd, pin 2 = standby

General

Power ..... Internal
Input: 100-240 VAC, 50-60 Hz

Power consumption and thermal dissipation

XPA 2002-70V.....

		115 VAC, 60Hz				230 VAC, 50Hz			
		AC Line Current	AC Power Consumed	Thermal Dissipation		AC Line Current	AC Power Consumed	Thermal Dissipation	
Condition		A	W	W	BTU/hr	A	W	W	BTU/hr
Active (1/8 power), all channels driven	**70 V**	0.8	84.5	34.5	118	0.4	85.6	35.6	122
Quiescent (idle)		0.2	20.8	20.8	71	0.2	23.1	23.1	79
Standby		<0.1	<1	<1	<3	<0.1	<1	<1	<3

XPA 2002-100V.....

		115 VAC, 60Hz				230 VAC, 50Hz			
		AC Line Current	AC Power Consumed	Thermal Dissipation		AC Line Current	AC Power Consumed	Thermal Dissipation	
Condition		A	W	W	BTU/hr	A	W	W	BTU/hr
Active (1/8 power), all channels driven	**100 V**	0.8	89.6	39.6	135	0.4	90.4	40.4	138
Quiescent (idle)		0.2	25.1	25.1	86	0.2	26.2	26.2	89
Standby		<0.1	<1	<1	<3	<0.1	<1	<1	<3

Temperature/humidity ..... Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing
Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing

Cooling ..... Convection, no vents, with heat sinks on the sides

Protection ..... Clip limiting, thermal, short circuit, DC output

Indication ..... Limiter/Protect LED indicates the onset of clip limiting, thermal cycling, or a short circuit

Mounting

Rack mount..... Yes, with included mounting brackets

Enclosure type ..... Metal

Enclosure dimensions ..... 1.7" H x 17.4" W* x 12.0" D (1U high, full rack wide)
(4.3 cm H x 44.2 cm W* x 30.5 cm D)
*Width excludes rack ears. 19.0" (48.3 cm) W with rack ears.

Product weight ..... 9.2 lbs (4.2 kg)

Vibration ..... ISTA 1A in carton (International Safe Transit Association)

Regulatory compliance

Safety..... BSMI, CCC, CE, c-UL, GS, KC, PSE, S-Mark, UL
Meets UL 60065, IEC 60065, and BSEN 60065 for AV equipment.

EMI/EMC..... CE, CISPR 22 Class B, CISPR 24, C-tick, EN55103-1, EN55103-2, FCC Class B, ICES, KCC, VCCI Class B

Environmental..... Complies with the appropriate requirements of ENERGY STAR® (ENERGY STAR qualified amplifier), EU code of conduct, RoHS, WEEE

Warranty ..... 3 years parts and labor

NOTE: All nominal levels are at ±10%.

NOTE: Specifications are subject to change without notice.

NOTE: Shipping weights and dimensions are available at **www.extron.com**.

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