Extron

Specifications

XPA U 1002 Series

Audio

Voltage gain

XPA U 1002	23x (27 dB)
XPA U 1002-70V	57x (35 dB)
XPA U 1002-100V	81x (38 dB)
CMRR	75 dB @ 1 kHz (typical)

Audio Input

Number/signal type	2 balanced/unbalanced
Connectors	(1) 3.5 mm captive screw connector, 5 pole
Impedance	>10k ohms balanced/unbalanced, DC coupled
Nominal level	+4 dBu, balanced
Maximum level	+20 dBu (7.75 Vrms), balanced
Input sensitivity	+4 dBu
Input signal detection threshold	-65 dBu ±3 dB, balanced

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

Audio Output

Number/signal type

XPA U 1002	2 channels, 4 or 8 ohms
XPA U 1002-70V	2 channels, 70V
XPA U 1002-100V	2 channels, 100V
Connectors	(1) 5 mm screw lock captive screw connector, 4-pole

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

Load impedance

XPA U 1002	4 ohms minimum
XPA U 1002-70V	50 ohms minimum
XPA U 1002-100V	100 ohms minimum
Amplifier type	Class D

Output power

XPA U 1002	100 Watts per channel, 8 ohms, 1 kHz, 0.1% THD 100 Watts per channel, 4 ohms, 1 kHz, 0.1% THD
XPA U 1002-70V	100 watts per channel, 70V, 1 kHz, 0.1% THD
XPA U 1002-100V	100 watts per channel, 100V, 1 kHz, 0.2% THD
Frequency response	20 Hz to 20 kHz, ±1 dB
THD + Noise	0.1% @ 1 kHz, at 3 dB below clipping
S/N	100 dB, 20 Hz - 20 kHz, unweighted

Damping factor

XPA U 1002	>100 @ 8 ohms
XPA U 1002-70V	>100 @ 50 ohms
XPA U 1002-100V	>100 @ 100 ohms

High pass filter

XPA U 1002-70V ..... 80 Hz, 12 dB per octave rolloff, selectable via captive screw

XPA U 1002-100V ..... 80 Hz, 12 dB per octave rolloff, selectable via captive screw

Control/remote

Control port

XPA U 1002..... (1) 3.5 mm captive screw connector, 2-pole

XPA U 1002-70V ..... (2) 3.5 mm captive screw connector, 2-pole

XPA U 1002-100V ..... (2) 3.5 mm captive screw connector, 2-pole

Pin configurations

Standby power control (contact closure) Pin 1 = GND, pin 2 = Standby

High pass filter (contact closure) Pin 1 = GND, pin 2 = OFF

General

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

Power consumption and thermal dissipation

XPA U 1002

		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	**8Ω**	0.4	34.2	9.2	31	0.2	33.5	8.5	29
	4Ω	0.4	35.9	10.9	37	0.2	35.0	10.0	34
Quiescent (idle)		0.1	5.3	5.3	18	0.1	5.1	5.3	18
Standby		<0.1	<1	<1	<3	<0.1	<1	<1	<3

XPA U 1002-70V

		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	**70V**	0.4	36.1	11.1	38	0.2	35.4	10.4	35
Quiescent (idle)		0.1	5.5	5.5	19	0.1	5.4	5.4	18
Standby		<0.1	<1	<1	<3	<0.1	<1	<1	<3

XPA U 1002-100V

		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	**100V**	0.4	35.6	10.6	36	0.2	34.9	9.9	34
Quiescent (idle)		0.1	5.4	5.4	18	0.1	5.2	5.2	18
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%, non-condensing
- Operating ..... +32 to +122°F (0 to +50°C) / 10% to 90%, non-condensing
- Cooling..... Convection, no vents

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

Indication ..... Limiter/Protect LED indicates the onset of clip limiting, thermal cycling, or a short circuit.
Over Temp LED indicates when the amplifier exceeds the recommended operating temperature for optimal unit longevity.
Power LED indicates power state, DC output protection (see XPA Ultra Series User Guide for details).

Rack mount ..... Yes, with included mounting brackets or optional rack shelf

Enclosure..... Metal

Enclosure dimensions ..... 1.7" H x 8.7" W x 10.5" D (1U high, half rack wide)
43 mm H x 220 mm W x 267 mm D

Product weight ..... 3.4 lbs (1.5 kg)

Regulatory compliance..... CE, CEC, CISPR 22 Class B, C-tick, CUL, ENERGY STAR®, European Code of Conduct, FCC Class B, ICES, KC, RoHS, UL, UL 2043, VCCI Class B

Product warranty ..... 3 years parts and labor

Everlast power supply warranty..... 7 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**.

5545-D4

© 2022 Extron — All rights reserved. All trademarks mentioned are the property of their respective owners. www.extron.com