

Specifications

XPA 2003C-70V, XPA 2003C-100V

Audio

Voltage gain	
Channels 1 and 2	23x (27 dB)
Channel 3	
XPA 2003C-70V	57x (35 dB)
XPA 2003C-100V	81x (38 dB)
Crosstalk	75 dB (typical) @ 1 kHz
CMRR.....	75 dB (typical) @ 1 kHz

Audio input

Number/signal type.....	3 balanced/unbalanced
Connectors.....	(3) 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 \pm 3 dB, balanced

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV \approx 2 dBu

Audio output

Number/signal type	
XPA 2003C-70V	2 channels, 4 or 8 ohms 1 channel, 70 V
XPA 2003C-100V	2 channels, 4 or 8 ohms 1 channel, 100 V
Connectors.....	(1) 5 mm screw lock captive screw connector, 4 pole (1) 5 mm screw lock captive screw connector, 2 pole

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

Load impedance	
Channel 1 or 2.....	4 ohms minimum
Channel 3	
XPA 2003C-70V	25 ohms minimum
XPA 2003C-100V	50 ohms minimum
Amplifier type	Class D
Output power	
Channel 1 or 2 (8 ohm).....	100 watts rms per channel, 1 kHz, 0.1% THD
Channel 1 or 2 (4 ohm).....	200 watts rms per channel, 1 kHz, 0.1% THD
Channel 3	
XPA 2003C-70V	
(70 V output).....	200 watts rms per channel, 70 V, 1 kHz, 0.1% THD
XPA 2003C-100V	
(100 V output).....	200 watts rms per channel, 100 V, 1 kHz, 0.1% THD
Frequency response	20 Hz to 20 kHz, \pm 1 dB

THD + Noise
 Channel 1 or 2..... 0.1% @ 20 Hz to 20 kHz, 8 ohms, 3 dB below clipping
 Channel 3..... 0.1%, 1 kHz, 3 dB below clipping
 S/N..... 100 dB, 20 Hz - 20 kHz, unweighted
 Damping factor
 Channel 1 or 2..... >100 @ 8 ohms
 Channel 3
 XPA 2003C-70V >100 @ 25 ohms
 XPA 2003C-100V >100 @ 50 ohms
 High pass filter
 XPA 2003C-70V 80 Hz, 12 dB per octave rolloff for 70 V line output (switch selectable)
 XPA 2003C-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 2003C-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	Ch1 & 2 (8Ω) and Ch 3 (70V)	0.8	92.2	42.2	144	0.5	92.9	42.9	146
	Ch1 & 2 (4Ω) and Ch 3 (70V)	1.1	122.4	47.4	162	0.6	122.4	47.4	162
Quiescent (idle)		0.3	28.9	28.9	99	0.2	29.8	29.8	102
Standby		<0.1	<1	<1	<3	<0.1	<1	<1	<3

XPA 2003C-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	Ch1 & 2 (8Ω) and Ch 3 (100V)	0.8	94.4	44.4	152	0.46	95.3	45.3	155
	Ch1 & 2 (4Ω) and Ch 3 (100V)	1.1	123.1	48.1	164	0.58	123.3	48.3	165
Quiescent (idle)		0.3	28.1	28.1	96	0.17	28.6	28.6	98
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 (4.2kg)
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 $\pm 10\%$.

NOTE: Specifications are subject to change without notice.

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

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