multichannel* systems

μPA Micro Preamplifier

Туре	μPA16	μΡΑ32
Operating Temperature Storage temperature	0° C to 50° C 0° C to 50° C	0° C to 50° C 0° C to 50° C
Relative humidity Dimensions (W x D x H)	10 % to 85 % non-condensing ca. 17 mm x 17 mm x 2.5 mm w/o connector ca. 21 mm x 17 mm x 2.5 mm with connector	10 % to 85 % non-condensing ca. 20 mm x 25 mm x 3 mm w/o connector ca. 24 mm x 25 mm x 3 mm with connector
Weight	1.5 g w/o cable and plug,	2 g w/o cable and plug
Length of the cable Maximum tensile strength of cable	1.5 m 20 N	1.5 m 20 N
Input connector type	18-pin dual-row Omnetics A79039-001 (NSD-18-DD-GG with 2 guide posts, female)	36-pin dual-row Omnetics A79023-001 (NSD-36-DD-GS with 4 guide posts, female)
Mating connector type	Omnetics NPD-18-XX-GS with 2 guide posts, male	Omnetics NPD-36-XX-GS with 4 guide posts, male
Mating NeuroNexus probe	F16, CN16, C16, C32	F32, CN32, H32, HP32, MRCM32
Output connector type	26-pin HD D-Sub, male (Harting TB 09 56 200 5615)	44-pin HD D-Sub, male (Harting TB 09 56 200 5615)
Supply voltage Supply current	\pm 2.5 V < \pm 15 mA, typically \pm 14 mA	± 2.5 V < ± 30 mA, typically ± 26 mA
Number of input channels Input voltage	16 \pm 250 mV (with respect to a supply voltage of 2.5 V)	32 \pm 250 mV (with respect to a supply voltage of 2.5 V)
Input impedance Input capacitance Input noise	10^7 Ω @ 1 kHz 13 pF, according to the manufactur's datasheet < 1.2 μV _p (0.1 Hz to 10 Hz, inputs shortened)	$10^7 \Omega$ @ 1 kHz 13 pF, according to the manufactur's datasheet < 1.2 μV _{pp} (0.1 Hz to 10 Hz, inputs shortened)
Noise density	$e_n = 10 \ nV / \sqrt{Hz} @ 1 \text{ kHz}$	$e_n = 10 \ nV / \sqrt{Hz} @ 1 \text{ kHz}$
Number of output channels Output voltage Output current Output impedance	16 supply voltage maximal 30 mA maximal 0 Ω	32 supply voltage maximal 30 mA maximal 0 Ω
Bandwidth	DC to 50 kHz	DC to 50 kHz
Gain	10	10