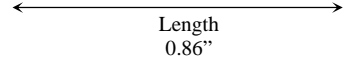


HST/16V-G20 Technical Specifications

CON/16m-V (2x)



HST/16V-G20 (2x)



Length
0.86"

Width
0.47"



Thickness
0.14"

HSC/16V (2x)



The HST/16V is a miniature Very Large Scale Integration (VLSI) based headstage amplifier. It contains 17 gain of 20x (G20x) amplifiers and one unity gain amplifier. Sixteen of the G20x amplifiers (channels 1-16) are designed for recording from high-impedance recording electrodes. The 17th G20x amplifier may be used to generate a reference signal from a de-insulated low-impedance electrode. This reference signal can be used differentially at the preamplifier level to subtract common mode noise and artifacts from the 16 recording channels. The headstage's unity gain amplifier generates a "buffered ground" signal that may also be used differentially at the preamplifier level (in place of the "reference" signal).

Pinout Information

Input (8x)

- Guide Pin
- Guide Pin
- 11 - Ch 1 In
- 12 - Ch 2 In
- 13 - Ch 3 In
- 14 - Ch 4 In
- 15 - Ch 5 In
- 16 - Ch 6 In
- 17 - Ch 7 In
- 18 - Ch 8 In
- Guide Pin
- Guide Pin



- Guide Pin
- 10 - Ground
- 9 - Ch 16 In
- 8 - Ch 15 In
- 7 - Ch 14 In
- 6 - Ch 13 In
- 5 - Ch 12 In
- 4 - Ch 11 In
- 3 - Ch 10 In
- 2 - Ch 9 In
- 1 - Reference In
- Guide Pin

Output (8x)

- Guide Pin Hole
- 22 - (+) - Ch 1 Out
- 21 - Ch 1 Out
- 20 - Ch 15 Out
- 19 - Ch 14 Out
- 18 - Ch 13 Out
- 17 - Ch 12 Out
- 16 - Ch 11 Out
- 15 - Ch 10 Out
- 14 - Ch 9 Out
- 13 - Reference Out
- Guide Pin Hole



- 1 - Ground #1
- 2 - Ch 1 Out
- 3 - Ch 2 Out
- 4 - Ch 3 Out
- 5 - Ch 4 Out
- 6 - Ch 5 Out
- 7 - Ch 6 Out
- 8 - Ch 7 Out
- 9 - Ch 8 Out
- 10 - (-) - Ch 8 Out
- 11 - BUF GND
- 12 - Ground #2

Mating Connector

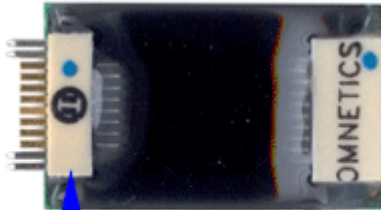


CON/16m-V

(Omnetics #A8784-001)

Headstage

(picture not to scale)



HST/16V-G20
(gain=20)

(Input Connector: Omnetics #A8783-001
or #A8858-001 (CON/16f-V))

Headstage Dimensions:
Length = .86" (21.84 mm)
Width = 0.47" (11.19 mm)
Thickness = 0.14" (3.50 mm)