PERFORMANCE SPECIFICATIONS[1]

1. ELECTRICAL

Transducer Capacitance	-	Internal switch-selectable nominal values: 10 pF, 22 pF, 33 pF, 47 pF, 100 pF, 220 pF, 330 pF, 470 pF and 1000 pF (any multiple combination may be selected to achieve a large range of capacitance values with constant low frequency corner)
Gain Settings	-	0 dB (nominal) with –20 dB and + 20 dB per switch selection[2]
Bandwidth	-	32 kHz - 10 MHz nominal +/- 1 dB 70 kHz to 4 MHz - 3 dB at 32 kHz and ~20 MHz (for 0db gain setting)
Self-Noise Output	-	500 μVrms total (in the full bandwidth of 33 kHz to 20 MHz) with the output buffer set to 0 dB gain
Distortion	-	The basic harmonic distortion at less than 0.1% for output amplitudes less than 2.5 V pk at 1 MHz. The output slew rate limit for the amplifier stages is 125 V/μsecond.
Input Impedance	-	<5Ω
Output Impedance	-	<20Ω
Output Voltage	-	6V p-p maximum at unity gain and 500 kHz (1 nF C_{in} and >1kΩ load resistance)
Power Supply	-	12 - 15 VDC @ 100 mA

2. PHYSICAL

No of Channels	-	4 independent channels
Input/output connections	-	BNC coaxial
Package	-	approximately 160 x 100 x 80 mm rectangular die-cast enclosure

Wide-band Charge Amplifier

[1] Specifications parameters may change without notice.

[2] Note that selecting +20 dB gain will result in a bandwidth reduction since the output amplifier is not able to maintain this level of gain out to 10 MHz.