



Table 4 – PIEZO DRIVE MODULE



Each Piezo Drive module consists of two boards viz; Piezo Carrier board and Mezzanine Piezo amplifier board. The module supports tuning of one resonant cavity.

PIEZO CARRIER CARD

- 1) Provision for mounting Piezo amplifier board
- 2) True 18-Bit, Voltage Output DAC with $1\mu\text{s}$ settling time and SPI / QSPI / MICROWIRE interface.
- 3) 8-Channel DAS with 18-Bit, Bipolar, Simultaneous Sampling ADC (200ksps at all channels), with high speed serial and parallel interface.
- 4) Drive Voltage, output Voltage and current monitoring by High Common -Mode Voltage Difference Amplifier via 18 bit ADC.
- 5) Analog control and monitor through front panel TRS jacks.
- 6) Quad-Channel Digital Isolators.

PIEZO MEZANNINE CARD

Each board is three channels, ultra-low Noise Miniature 150V Piezo Driver. It is a complete miniaturized power supply and ultra -low noise driver for up to three 100V, 120V or 150V piezoelectric stack actuators with following features:-

- 1) RMS current per channel: 78mA
- 2) Signal BW: 180KHz
- 3) Gain: 20
- 4) Slew rate: $38\text{V}/\mu\text{s}$



5) Dimension: 76 x 40 x 44 mm (L x W x H)