Nanometric Systems, Incorporated

N-277, 16 Channel Amplifier & Discriminator

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N-277 FEATURES
INSTRUMENTATION AMPLIFIERS

THRESHOLD	**500 nano-amp. ±75 nano amps (Set by external voltage; 1 volt = 1 u amp.). Input impedance Rin is 330 ohms**
POLARITY	**Both positive and negative inputs are provided. Each input is protected with two diodes connected to ground. Always ground all unused inputs in order to minimize the input noise.**
NOISE	**100 hz for 16 channels: 400 hz maximum for an individual channel Test conditions: Threshold 0.5 volts; negative inputs shunted by 50 ohms; positive inputs grounded.**
TIME WALK	**8.5 nano-sec maximum, 6.5 nano-sec. typical average. Test conditions: Threshold 0.5 volts. Test pulses 1.3 and 6.5 micro-amps.**
CROSSTALK	**Adjacent channels, greater than 30 db, Non adjacent channels over 40 db.**
FAST OR OUTPUTS	**Delivers -0.6 ma from a current source, i.e. -30 mv into 50 ohms.**
SIGNAL OUTPUTS	**Drives 16 differential ECL lines into a 34 conductor ribbon cable. 50 nano second pulse width: limits the cable length to less than 150 feet!**
TEST PULSE INPUT	**The test pulse applies a signal to the input of every channel. Boards are supplied with the negative test pulses enabled. A jumper wire selects either positive or negative test pulse inputs**
POWER	**350 mw per channel. Protected against accidental power reversal! Total power for a 16 channel card: +5 volts 0.4 amp: -5 volts 0.68 amp.**

N-277-C	**Positive and Negative inputs; Rin = 330 ohms.**
N-277-C3	**Negative inputs Rin = 330 ohms. Positive inputs grounded. FERMILAB standard.**
N277-CD	**Positive and Negative inputs; Rin = 56 ohms. May be used as a silicon detector line amp/disc. With line input impedance of 112 ohms.**
N277L	**L indicates two power connectors, on the input and output side of the card. REPLACES LeCroy part number 2735PC.**