

# SPECIFICATIONS

## MODEL 7168 nV SCANNER CARD

**CHANNELS PER CARD:** 8

**CONTACT CONFIGURATION:** 2 poles per channel, input HI and LO.

**CONNECTOR TYPE:** Screw terminal to bare copper printed circuit pad.

**MAXIMUM SIGNAL LEVEL:** 10V, 50mA, peak (resistive load)

**CHANNEL TO CHANNEL CROSSTALK:** -46dB (typical) at 1KHz with 20K $\Omega$  terminations.

**CONTACT RESISTANCE:** <120

**CONTACT POTENTIAL (HI to LO) BETWEEN CHANNELS:** <30nV when properly zeroed with supplied leads (see manual for recommended procedure). Typically <60nV without zeroing.

**Temperature Coefficient:** <6nV/ $^{\circ}$ C between channels

**CONTACT TYPE:** Solid-state JFET switch

**ACTUATION TIME:** <3ns, exclusive of mainframe

**INPUT LEAKAGE:** <50pA per channel at 23 $^{\circ}$ C

**INPUT ISOLATION:** >10 $^9$  $\Omega$ , <40pF between any input terminals or between any input terminal and earth.

**COMMON MODE VOLTAGE:** 30V peak

**MAXIMUM VOLTAGE BETWEEN ANY TWO TERMINALS:** 10V

### GENERAL

**WARMUP:** 2 hours in mainframe for thermal stability.

### ENVIRONMENT

**Operating:** 0 $^{\circ}$  to 40 $^{\circ}$ C, up to 35 $^{\circ}$ C at 70% RH

**Storage:** -25 $^{\circ}$ C to 60 $^{\circ}$ C

**DIMENSIONS, WEIGHT:** 32mm high  $\times$  114mm wide  $\times$  272mm long (1 $\frac{1}{4}$ "  $\times$  4 $\frac{1}{2}$ "  $\times$  10 $\frac{1}{2}$ "). Net weight 0.53kg (11.5 oz.)

**ACCESSORIES SUPPLIED:** 7168-316 Input Cable, Eight supplied  
Model 1507 Input Cable

**ACCESSORY AVAILABLE:** Model 1483 Low Thermal Connection Kit

Specifications subject to change without notice.