

7402 SPECIFICATIONS

CHANNELS PER CARD: 9 plus temperature reference.

CONTACT CONFIGURATION: 2 pole form A, with common guard.

ISOTHERMAL BLOCK:

Temperature Offset: $\pm 0.05^{\circ}\text{C}$ maximum from HI to LO of any channel or between any two adjacent channels in a column of the isothermal block. $\pm 0.1^{\circ}\text{C}$ maximum between any two terminals on the isothermal block. Maximum additional dynamic offset due to 10°C step change in environment: $\pm 0.1^{\circ}\text{C}$ after 1 hour settling.

Connector type: Screw terminals, No. 18 AWG wire maximum.

TEMPERATURE REFERENCE:

Type: Semiconductor, temperature dependent current source.

Output: $+200\mu\text{V}/^{\circ}\text{C}$, ($+54.63\text{mV}$ @ 0°C).

Accuracy: $\pm 0.25^{\circ}\text{C}$ (10° - 35°C), $\pm 0.50^{\circ}\text{C}$ (0° - 10°C and 35° - 50°C).

RELAY:

Drive Current: 12mA per relay (typical).

Actuation Time: $< 5\text{ms}$, exclusive of mainframe.

Contact Offset Voltage: $< 1\mu\text{V}$.

Maximum Signal Level: 42V, 100mA, 2VA (non-inductive load only).

Contact Life: $> 10^6$ closures (dry circuit), $> 10^6$ at maximum signal level.

Contact Resistance: $< 0.7\Omega$ initial ($< 2\Omega$ to rated contact life).

ISOLATION:

Channel: $> 10^9\Omega$, $< 10\text{pF}$.

Input: $> 10^9\Omega$, $< 150\text{pF}$.

Common Mode Voltage: 200V peak.

ENVIRONMENT:

Operating: 0° - 50°C , 0% to 70% relative humidity up to 35°C ; linearly derate 3% RH/ $^{\circ}\text{C}$, 35° - 50°C .

Storage: -25° to $+65^{\circ}\text{C}$.

DIMENSIONS, WEIGHT: 32mm high \times 114mm wide \times 272mm long ($1\frac{1}{4}$ in. \times $4\frac{1}{4}$ in. \times $10\frac{3}{4}$ in.). Net weight 0.64kg (1 lb. 6.5 oz.).