

## **SFT 6000NPCI**

### **Programmable Eddy Current PC board**

FREQUENCY RANGE	Digital oscillator : 1 KHz up to 5 MHz in minimum steps of 100 Hz
OUTPUT INJECTION	Output via wideband transformer – Floating output independent of probe configuration. Bandwidth : 5 MHz at -1dB. Amplitude range : 0 – 10 Vpp; software selectable in steps of 1 Vpp. Low output impedance : 11 Ohms Output connector : SubD 9 pins female.
RECEIVER	Bandwidth : 6 MHz at -3dB. Gain : - Software variable gain : from 28 to 68 dB in 1 dB steps . Noise : 75 mVpp on X & Y (at 62 dB gain, input shorted, 10 Vpp injection, high-pass filter DC and low-pass filter 500Hz. Automatic balance. selected speed Permanent balance : software selectable balance speed from 1 to 100%. Residual modulation : compensation at the input : 360 mVpp.
FILTERS	Two software selectable filters on each channel (X & Y). High-pass filter : continuous – 2.5 – 10 – 25 – 55 – 100 – 250 – 500 Hz (differentiation). Low-pass filter : 20 – 50 – 100 – 500 Hz (integration).
SIGNAL ANALYSIS	Polar display of phase and amplitude. Synchronous demodulator – Bandwidth : 500 Hz at -3 dB. Phase rotation : software selectable 0-360°. by step of 1°.
A/D CONVERTER	Output data : X and Y 12 bits conversion presented to PC bus.
INPUTS	Product presence signal : ON/OFF selectable by software. Opto-coupler input : 0-24 Vdc.
SIZE	PCI bus connector . 1/2 length board. 174.6mm
POWER SUPPLY	+5V +3.3V +12V
SOFTWARE	Menu driven : X-Y polar display, time display of X and Y, signal record and saving to hard disk possibilities. SOFRATEST optionally offers a variety of industrial grade applications software for the SFT6000N boards. Further details are available from SOFRATEST. Libraries for Windows XP 3 individual sectors chart

