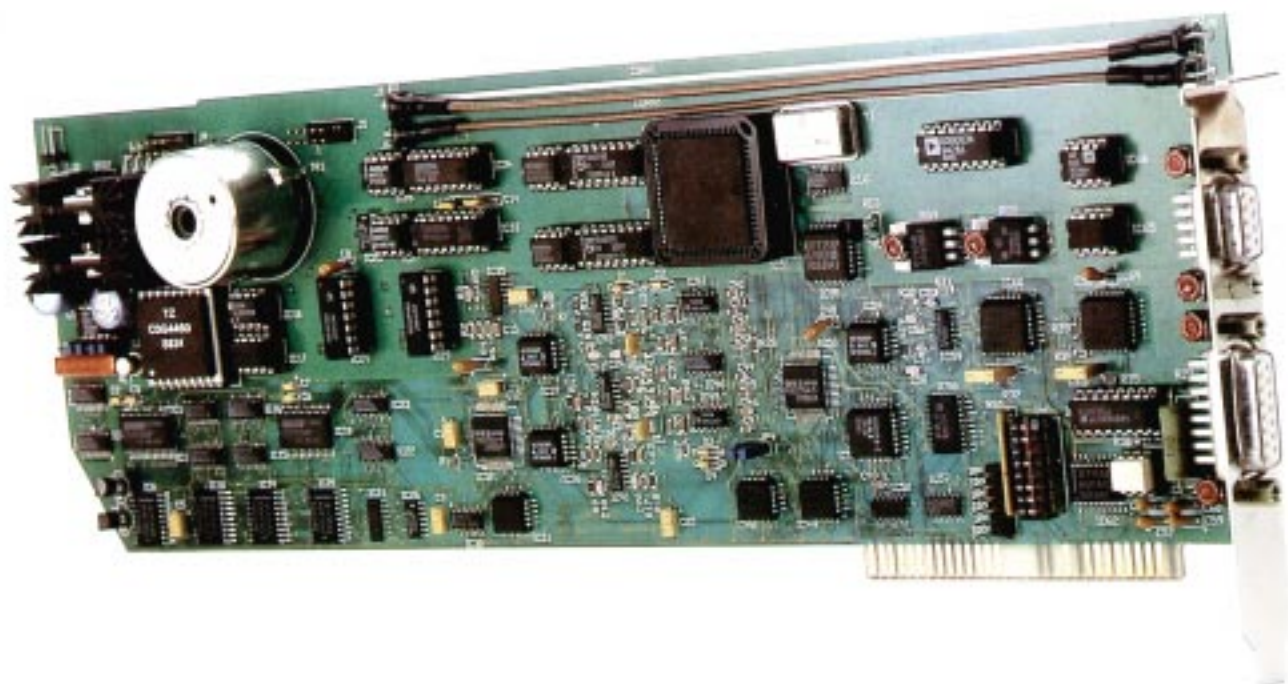


PROGRAMMABLE EDDY CURRENT PCB 5MHz



- * The SFT 6000N is a very powerfull complete EDDY CURRENT device built to run in standard PC.
- * User is able to write personnal application software, using the SFT 6000N as a data conditioner.
- * The SFT 6000N does not require any modification or wiring of the PC and plugged in any available ISA slot.
- * The card accepts all differential and absolute arrangement.
- * Comes with standard software under Windows.
- * DDL and Microsoft C libraries available.

SFT 6000N

PROGRAMMABLE EDDY CURRENT PC BOARD

FREQUENCY RANGE	Digitized 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 -1 dB. Amplitude range : 0 - 10 Vpp ; software selectable in steps of 1 Vpp. Output impedance : 11 Ohms. Output connector : J1 - subD 9 pin female.															
RECEIVER	Bandwidth : 6 MHz at -3 dB. Gain : - Fixed gain : 28 dB. - Software variable gain : from 28 to 68 dB in 1 dB steps (linear to 62 dB). Noise : 75 mVpp on X & Y (at 62 dB gain, input shorted, 10 Vpp injection, continuous high-pass filter and 500 Hz low-pass filter). Automatic balance. Permanent balance ; software selectable balance speed from 1 to 100 %. Residual modulation - compensation at the input : 360 mVpp.															
FILTERS	Two softwares 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°. - clockwise in 1° or 10° steps. - counter clockwise in 1° steps. Attenuation : software selectable 0 to 100 % in 1% steps for +X and +Y (optionally ±X and ±Y when configured for dual frequency operation).															
A/D CONVERTER	Output data : X and Y 12 bits conversion presented to PC bus. Conversion time : 30 µs.															
INPUTS	Product presence signal : ON/OFF selectable by software. Opto-coupler input : 0-24 Vdc. Connector : J2 (subD 15 pins female).															
OUTPUTS	Dynamic range : ± 5 Volts for X and Y axis. Analog outputs : X & Y, after filtration, phase rotation and coefficient adjustment, (X & Y output optionally available unfiltered, with no rotation and coefficient adjustment). Multiplexed outputs : Xm & Ym when board set to operate in multi-channel, parallel mode.															
MULTI-CHANNEL MODE	Up to sixteen SFT 6000N Eddy Current boards in a single PC operating in parallel. Switch selectable board addressing. Dual Frequency mode : requires two SFT6000N PC boards set as follows : - one board set as Master via switch receives output from the second (slave) board at the frequency mixing stage. - one SFT 6004 Filter/Adder board.															
POWER SUPPLY	<table><thead><tr><th></th><th>Without load</th><th>With 50 Ohms load (10 Vpp)</th></tr></thead><tbody><tr><td>+ 5 V :</td><td>900 mA</td><td>900 mA</td></tr><tr><td>- 5 V :</td><td>160 mA</td><td>160 mA</td></tr><tr><td>+ 12 V :</td><td>260 mA</td><td>260 mA</td></tr><tr><td>- 12 V :</td><td>260 mA</td><td>280 mA</td></tr></tbody></table>		Without load	With 50 Ohms load (10 Vpp)	+ 5 V :	900 mA	900 mA	- 5 V :	160 mA	160 mA	+ 12 V :	260 mA	260 mA	- 12 V :	260 mA	280 mA
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SIZE	ISA Bus connector (8 or 16 bits). Full length board. Max thickness (at back end of board) : 3 cm (3/4 and 1/2 length PC boards may be used in between multiple SFT 6000 boards).															
SOFTWARE	Menu driven : X-Y polar display - temporal display of X and Y - signal record and saving to hard disk. Sofratest optionnally offers a variety of industrial grade applications software for the SFT 6000N board. Further details are available from Sofratest.															

Local Agent



Specifications subject to change
KCC003A0

