

# Data Sheet

## Series Array C4X16F90

Sensor ID: C416\_B15\_1

date measured	2010.08.12
array #	1
nominal input inductance $L_{in}$ (nH)	6
input coupling 1/Min ( $\mu\text{A}/\Phi_{i0}$ )	24,6
feedback sensitivity 1/Mf ( $\mu\text{A}/\Phi_{i0}$ )	34,1
maximum voltage swing $\Delta V_{max}$ ( $\mu\text{V}$ )	327,5
voltage swing @ working point $\Delta V_w$ ( $\mu\text{V}$ )	241,5
transfer coefficient $V_{\phi}$ ( $\mu\text{V}/\Phi_{i0}$ )	1443,2
bias resistor $R_b$ ( $\text{m}\Omega$ )	75,23
heater current in liquid Helium via $\pm V$ (mA)	0,7
heating time in liquid Helium via $\pm V$ (s)	0,1
bias current $I_b$ ( $\mu\text{A}$ )	6,5
bias voltage $V_b$ ( $\mu\text{V}$ )	80
setup file name	C416_B15_1.stp
flux noise ( $\mu\Phi_0/\sqrt{\text{Hz}}$ ) @ 50kHz	0,37983
@ 10kHz	0,388671
@ 1kHz	0,443734
@ 100Hz	0,641733
@ 10Hz	1,08368
@ 1Hz	2,12628
@ 0.1Hz	4,22107

All values obtained with XXF-1 SQUID electronics @ 4,2K.