

Data Sheet

Series Array C4X16F90

Sensor ID: C416_B15_2

date measured	2010.08.12
array #	2
nominal input inductance L_{in} (nH)	6
input coupling 1/Min ($\mu\text{A}/\Phi_{i0}$)	24,9
feedback sensitivity 1/Mf ($\mu\text{A}/\Phi_{i0}$)	33,7
maximum voltage swing ΔV_{max} (μV)	370
voltage swing @ working point ΔV_w (μV)	209
transfer coefficient V_{ϕ} ($\mu\text{V}/\Phi_{i0}$)	1573,4
bias resistor R_b ($\text{m}\Omega$)	77,7
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 (μA)	6,5
bias voltage V_b (μV)	80
setup file name	C416_B15_2.stp
flux noise ($\mu\Phi_0/\sqrt{\text{Hz}}$) @ 50kHz	0,356943
@ 10kHz	0,368621
@ 1kHz	0,414467
@ 100Hz	0,588742
@ 10Hz	0,992021
@ 1Hz	2,03198
@ 0.1Hz	4,37719

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