

# Elektromagnetické senzory

SQUID anteny

radiation resistance - antenna turnover frequency - turning point for the loop resistance and loop inductance

$$f_a = R_a / 2\pi L_a$$

The length of the coil  $l$  is recommended to be about 0.7-0.9  $l_c$

$l$  = dlzka cievky

$l_c$  = dlzka jadra

amorphous Metglas core - low noise

MEDA offers sensors with sensitivity 25 mV/nT and noise at 10 kHz equal to 10 fT/ $\sqrt{\text{Hz}}$  (MGCH-2 sensor with core length about 32 cm) or at 0.2 Hz equal to 25 pT/ $\sqrt{\text{Hz}}$  (MGCH-3 sensor with core length of about 1 m) [33].

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