



Specifications sheet: Focussing coil

Introduction

The focussing coil creates a strong on-axis magnetic field parallel to the electron beam propagation axis resulting in transverse beam focusing. The coil can be used for weak focussing, i.e. focal lengths $f > \dots\text{m}$

Applications

- Electron beam focussing

Features

- Small footprint

General	
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Cooling	: Convection
Mount	: M6 threaded hole on bottom
Diameter center hole	: 35 mm
Focal length	: > .. m for 100 keV electrons

Coil	
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Inner radius	: 20 mm
Outer radius	: 37.5 mm
Length	: 60 mm
Number of turns	: 650
Wire type	: Circular (diameter 1 mm)

Electric	
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Maximum current	: 1.75 A
Voltage	: 5.6 V at rated current
Temperature	: 58.5°C at rated current

Magnetic	
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On-Axis magnetic field	: 20.1 mT at 2 A
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Dimensions	
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Size	: 86 × 97 × 80 mm
Weight	: Unknown