

Emittance Compensation Solenoid



Maximum field strength	0.3 T
Effective magnetic length	16 cm
Number of coils	4
Maximum current	150 A
Resistance per coil	25 mΩ
Uncorrected dipole error	<70 G-cm
Uncorrected quadrupole error	<2.5 G
Field at cathode	<30 G
Bore	7.6 cm
Physical length	20.1 cm
Transverse size	39 cm
Weight	190 kg

RELATED PRODUCTS

Our Emittance Compensation Solenoid is specifically designed to mate with our **1.6 Cell Photoinjector**.

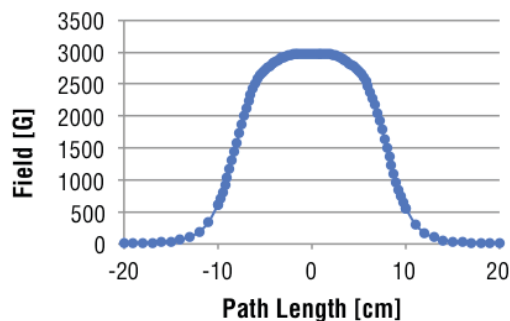
A sophisticated solenoid designed specifically for RF photoinjectors. RadiaBeam's emittance compensation solenoid is built upon experience and results. With a variable field profile for optimization of emittance compensation, minimal field at the cathode, and quadrupole symmetry, RadiaBeam's emittance compensation solenoid is a flexible high-performance device for current and next generation photoinjector-based light sources.

Optional corrector coils for correction of dipole, quadrupole, and skew quadrupole multipole moments are also available.

FEATURES

- Matched to our **S-band 1.6 Cell Photoinjector**
- Tunable field profile
- Nickel-plated yoke
- Quadrupole and dipole moment correctors

LONGITUDINAL PROFILE (I = 150 A)



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Other options are available upon request. Please contact us or visit our website for purchasing information.