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### ***Oxford 500 MHz Superconducting Magnet***

Cryostat No	DLN 0010/03/18
Magnet No	98554
Central Field	11.744 Telsa
Current for central field	64.80 Amps
Overfield Current	0.100 Amps
Field current ratio	0.1812 Tesla/Amp
Room Temp Bore diameter	51 mm
Inductance	150 Henry
Switch "open" resistance	10 ohms
Switch heater resistance	100 ohms
Switch heater current	60 m Amps
Recommended power supply trip voltage	4 volts

#### **Magnet Energisation Rates**

Maximum Charging Rates – Constant Rates

Amps/Minute	Sweep Time Setting	From (amps)	To (amps)
1.5		0	30
.75		30	40
.375		40	54
.15		54	58
.075		58	FIELD

#### NMR Superconducting Shim Data

Coil	Switch heater resistance ohms	Switch heater current millamps	Recommended operating current Helipot Amps
Z1	100	60	837
Z2	100	60	456
X	100	60	117
Y	100	60	316
ZX	100	60	216

ZY	100	60	858
XY	100	60	584
X2 – Y2	100	60	660
Z0	100		

Distance from cryostat base flange to magnet centerline = 389 mm

#### Field Limits For Devices

The devices listed should be located outside the following limits:

#### 1 Gauss

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Image Intensifiers  
Nuclear Cameras  
Electron Microscopes  
Accurate Measuring Scales

#### 5 Gauss

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Motor Vehicles  
Cathode Ray Tubes  
Public Access Areas Without Warning Signs  
Cardiac Pacemakers  
Neuro Stimulators  
Bio-Stimulation Devices

#### 10 Gauss

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Computers  
X-Ray Tubes  
Watches and Clocks  
Credit Cards

#### 20 Gauss

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Magnetic Storage Material

#### 50 Gauss

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Magnet Power Supply  
Shim Coil Power Supply  
RF Power Amplifier



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