



PARAMETERS	Customer specification	SIGMAPHI specification	SIGMAPHI 3D calculation
resonance frequency	7692Hz	7692Hz	7692Hz
Operating frequency	50Hz	50Hz	50Hz
Gap	12mm	12mm	12mm
Ampere turns per pole	1426A (1 turn)	1426A	1426A
Stored Energy	Not specified	<2J	1.1J
Maximum field - Bmax	149.3mT	138.5mT	138.5mT
Effective length (straight analysis)	250mm	259.45mm	259.45mm
Maximum integrated field – Blmax	37.33T.mm	35.94T.mm	35.94T.mm
Good field region dimensions	Horizontal ±17.5mm Vertical ±2.5mm	Horizontal ±17.5mm Vertical ±2.5mm	Horizontal ±17.5mm Vertical ±2.5mm
Transverse Field homogeneity - dB/Bo	Not specified	∆<5x10 ⁻²	-5x10 ⁻³ /3x10 ⁻²
Integrated Field homogeneity - dBL/Blo	∆<5x10 ⁻³	∆<1x10 ⁻¹	-8.6x10 ⁻³ /4.8x10 ⁻²
Beam radius	1570.524mm	1570.524mm	1570.524mm
Beam angle	9.1673°	9.1673°	9.1673°
Beam size	Ø5mm	Ø5mm	Ø5mm
Effective length (curved analysis)	250mm	261.15mm	261.15mm
Transverse Field homogeneity - dB/Bo (curved analysis)	Not specified	∆<1x10 ⁻³	-1.2x10 ⁻⁴ /3x10 ⁻⁵
Integrated Field homogeneity - dBL/Blo (curved analysis)	∆<5x10 ⁻³	∆<1x10 ⁻³	-1.91x10 ⁻⁴ /1.19x10 ⁻⁴
Leakage field integral	3.73x10 ⁻⁴ T.mm	<3.73x10 ⁻⁴ T.mm for Z from -210mm to 210mm	4.4x10 ⁻³ T.mm Z from - 1000mm to 1000mm 1.36x10 ⁻⁴ T.mm Z from -210mm to 210mm



