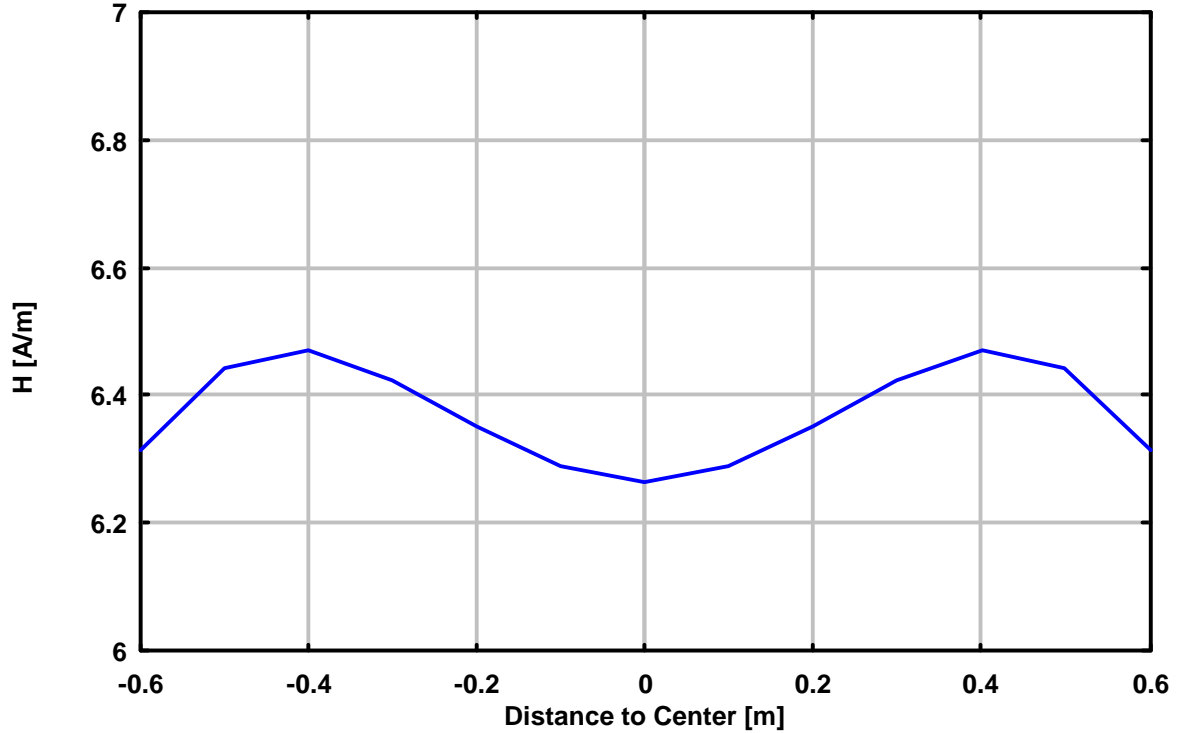


SCHWARZBECK MESS - ELEKTRONIK

An der Klinge 29 D-69250 Schönau Tel.: 06228/1001 Fax.: (49)6228/1003

Helmholtz-Spulen HHS 5218 Helmholtz Coils HHS 5218

HHS 5218 magnetic Fieldstrength along longitudinal coil axis

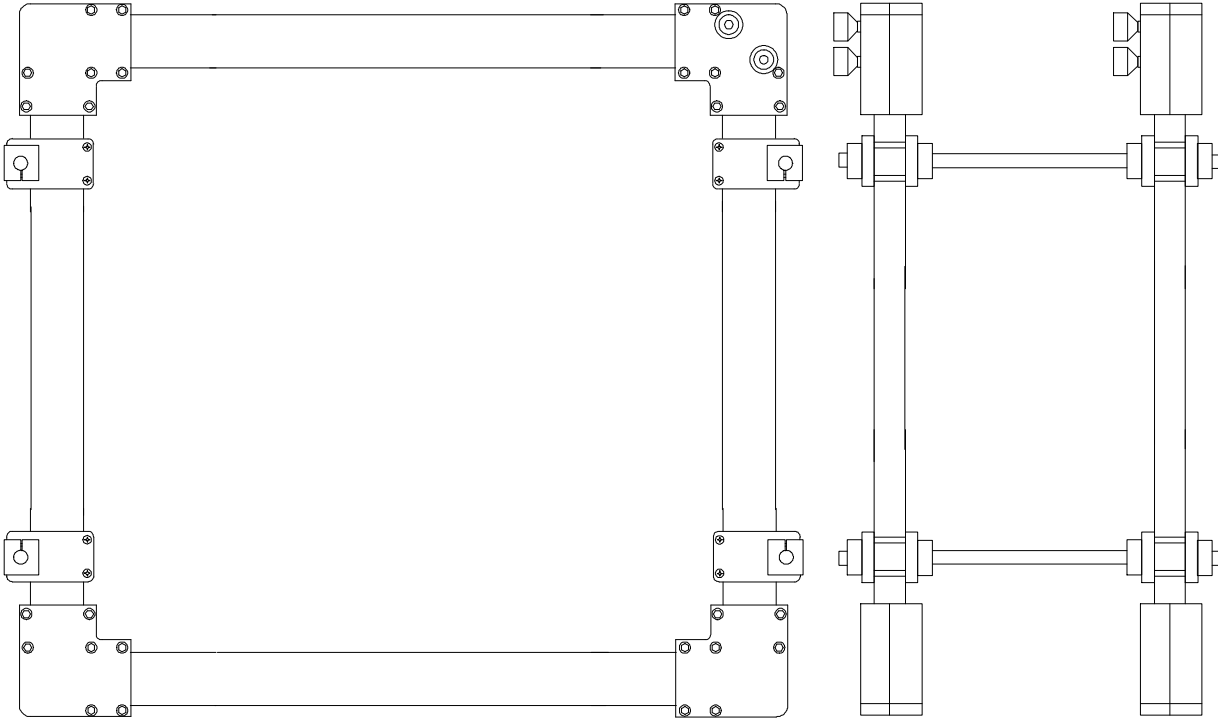


HHS 5218						
Kantenlänge: 1.8 m, Spulenabstand: 1.2 m, 10+10 Wdg., I=1 Amp						
Längskomponente der magnetischen Feldstärke entlang der Spulenlängsachse						
<i>Magnet. Fieldstrength, longitudinal component along rotational axis</i>						
Abstand zur Spulenmitte [m]	H1[A/m]	H2[A/m]	Hges[A/m]	H1[dBµA/m]	H2[dBµA/m]	Hges [dBµA/m]
-0.60 (Mitte Spule 2)	1.3102	5.0018	6.3119	122.35	133.98	136.00
-0.50	1.5175	4.9256	6.4431	123.62	133.85	136.18
-0.40	1.7601	4.7086	6.4687	124.91	133.46	136.22
-0.30	2.0420	4.3815	6.4235	126.20	132.83	136.16
-0.20	2.3656	3.9846	6.3502	127.48	132.01	136.06
-0.10	2.7307	3.5574	6.2882	128.73	131.02	135.97
-0.00 (Mitte)	3.1322	3.1322	6.2644	129.92	129.92	135.94
0.10	3.5574	2.7307	6.2882	131.02	128.73	135.97
0.20	3.9846	2.3656	6.3502	132.01	127.48	136.06
0.30	4.3815	2.0420	6.4235	132.83	126.20	136.16
0.40	4.7086	1.7601	6.4687	133.46	124.91	136.22
0.50	4.9256	1.5175	6.4431	133.85	123.62	136.18
0.60 (Mitte Spule 1)	5.0018	1.3102	6.3119	133.98	122.35	136.00

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Helmholtz-Spulen HHS 5218 Helmholtz Coils HHS 5218



Zeichnung nicht maßstäblich
Drawing not true scaled

Technische Daten:

Windungszahl (pro Spule):	10
Maximaler Spulenstrom:	20 A, 5 min.
Spulenstrom, nominell:	10 A continuos
Max. Magn. Feldstärke:	126 A/m, 5 min.
Magn. Nennfeldstärke:	63 A/m continuos
Magn. Feldstärke bei 1 A Spulenstrom:	6.26 A/m (Coil Dist. 1.2 m)
Erforderlicher Strom für 10 A/m:	1.596 A (Coil Dist. 1.2 m)
Abmessungen:	1.8 m x 1.8 m x 1.2 m
Max. Spulenabstand:	1.25 m
Spulenabstand gem. IEC 1000-4-8:	0.72 m
Spulenabstand für beste Feldhomogenität:	1.2 m
Nutzbarer Frequenzbereich:	0 - 100 kHz
Wirkwiderstand (pro Spule):	0.5 Ω
Resonanzfrequenz (Spulenpaar):	> 400 kHz
Gewicht:	17 kg

HHS 5218

Specifications:

Number of turns (per Coil):	10
Maximum Coil Current:	20 A, 5 min.
Nominal Coil Current:	10 A continuos
Maximum Magnetic Field Strength:	126 A/m, 5 min.
Nominal Magnetic Field Strength:	63 A/m continuos
Magnetic Fieldstrength, 1 A Coil Current:	6.26 A/m (Coil Dist. 1.2 m)
Current required for 10 A/m:	1.596 A (Coil Dist. 1.2 m)
Mechanical Dimensions:	1.8 m x 1.8 m x 1.2 m
Maximum Coil Separation:	1.25 m
Coil Separation acc. IEC 1000-4-8:	0.72 m
Coil Separation for best uniformity:	1.2 m
Usable Frequency Range:	0 - 100 kHz
Resistance (per Coil):	0.5 Ω
Resonant Frequency (Pair of Coils):	> 400 kHz
Weight:	17 kg