

Performance Parameters	Symbol	Unit	AVM50-HF-13
Stroke	S	mm	13.0
Continuous Force @100°C ^{[1][2]}	F _c	N	39.7
Peak Force ^[2]	F _{pk}	N	165.7
Force Constant ±10% ^[2]	K _f	N/A	33.1
Back EMF Constant ±10% ^[2]	K _e	V/(m/s)	33.1
Motor Constant @25°C ^[2]	K _m	N/Sqrt(W)	11.11
Resistance @25°C ±10% ^[3]	R ₂₅	Ω	8.86
Inductance ±20% ^[4]	L	mH	5.08
Electrical Time Constant	T _e	ms	0.57
Continuous Current @100°C ^[1]	I _c	A	1.2
Peak Current	I _{pk}	A	5.0
Continuous Power Dissipation @100°C ^[1]	P _c	W	16.4
Max. Coil Temperature	t _{max}	°C	100.0
Thermal Dissipation Constant ^[1]	K _{th}	W/°C	0.22
Max. Voltage	U _{max}	Vdc	60.0
Coil Mass	m _{coil}	g	161.0
Core Mass	m _{core}	g	634.2
Running Clearance	L _{gap}	mm	0.6

[1] Measurement is taken at ambient temperature 25°C. Value depends on the thermal environment.

[2] The values are at mid stroke.

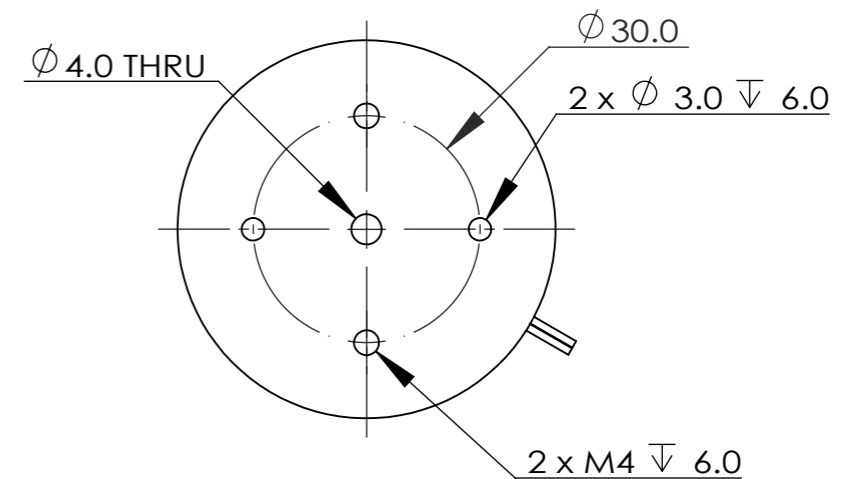
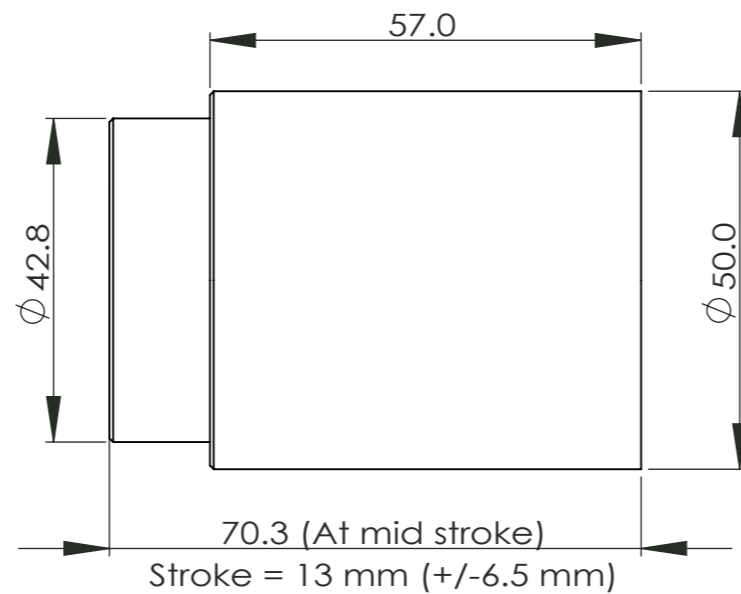
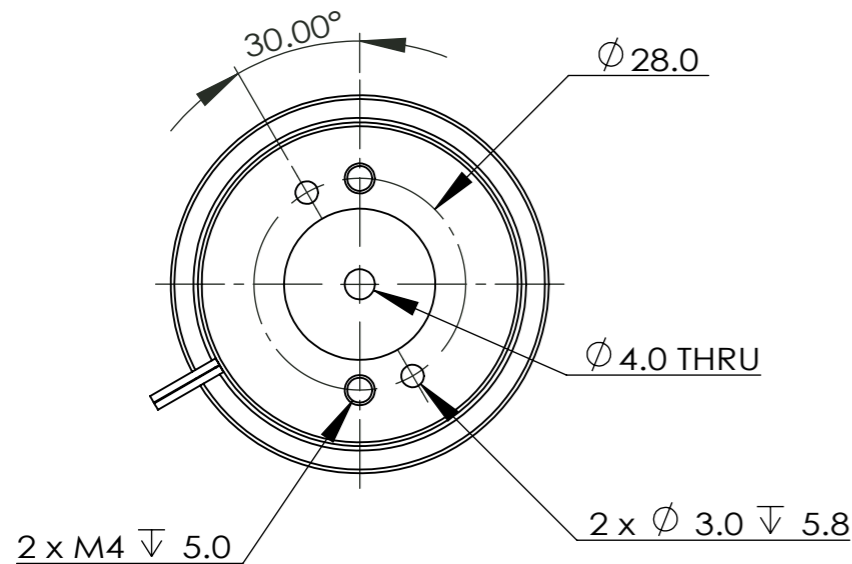
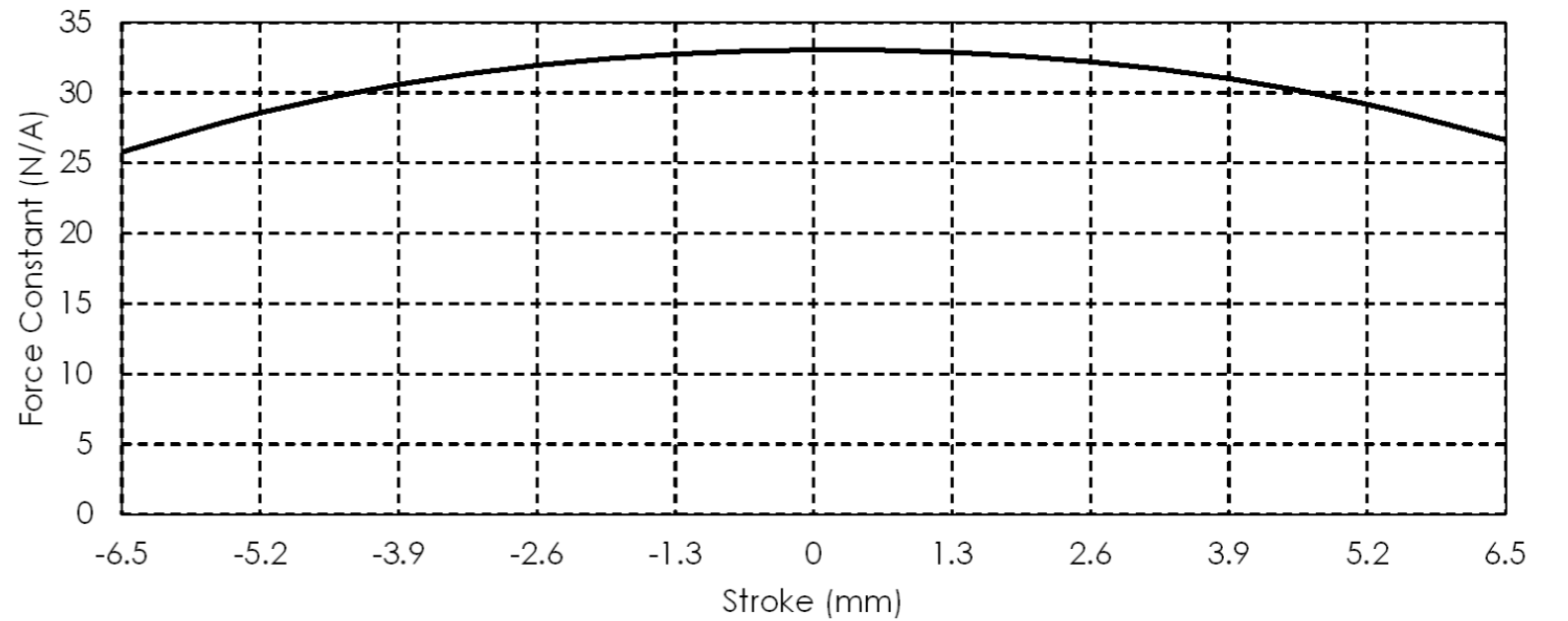
[3] Resistance is measured by DC current with 0.5 m lead wire.

[4] Inductance is measured by current frequency of 1 kHz.

The contents of datasheet are subject to change without prior notice.

AVM50-HF-13

REV	DESCRIPTION	BY	DATE	APPD
0	INITIAL RELEASE	SL	2021/10/26	YX
1	电感从7.56改到5.08，线圈质量从183.3改到161	WSM	2022/05/17	YX



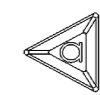
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UNLESS OTHERWISE SPECIFIED,
 ALL DIMENSIONS IN mm
 REMOVE ALL SHARP EDGES

GENERAL
 TOLERANCE
 X ± 0.25mm
 X.X ± 0.1mm
 X.XX ± 0.05mm
 X.XXX ± 0.025mm



Designed	SL	2021/10/25
Drawn	SL	2021/10/25
Checked	YH	2021/10/26
Approved	YX	2021/10/26
Material	NA	
Surface Treatment	NA	
Heat Treatment	NA	
Quantity	NA	



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Model:	AVM50-HF-13_Customer Drawing
Title:	AVM50-HF-13_Customer Drawing
Dwg No:	AVM50-HF-13
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Rev:	1