

Performance Parameters	Symbol	Unit	AVM20-HF-15
Stroke	S	mm	15.0
Continuous Force @100°C <sup>[1][2]</sup>	F <sub>c</sub>	N	4.54
Peak Force <sup>[2]</sup>	F <sub>pk</sub>	N	19.8
Force Constant ±10% <sup>[2]</sup>	K <sub>f</sub>	N/A	5.83
Back EMF Constant ±10% <sup>[2]</sup>	K <sub>e</sub>	V/(m/s)	5.83
Motor Constant @25°C <sup>[2]</sup>	K <sub>m</sub>	N/Sqrt(W)	1.96
Resistance @25°C ±10% <sup>[3]</sup>	R <sub>25</sub>	Ω	8.80
Inductance ±20% <sup>[4]</sup>	L	mH	1.48
Electrical Time Constant	T <sub>e</sub>	ms	0.17
Continuous Current @100°C <sup>[1]</sup>	I <sub>c</sub>	A	0.8
Peak Current	I <sub>pk</sub>	A	3.4
Continuous Power Dissipation @100°C <sup>[1]</sup>	P <sub>c</sub>	W	6.9
Max. Coil Temperature	t <sub>max</sub>	°C	100
Thermal Dissipation Constant <sup>[1]</sup>	K <sub>th</sub>	W/°C	0.092
Max. Voltage	U <sub>max</sub>	Vdc	60
Coil Mass	m <sub>coil</sub>	g	24.3
Core Mass	m <sub>core</sub>	g	89.6
Running Clearance	L <sub>gap</sub>	mm	0.50

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

[2] The values are at mid stroke.

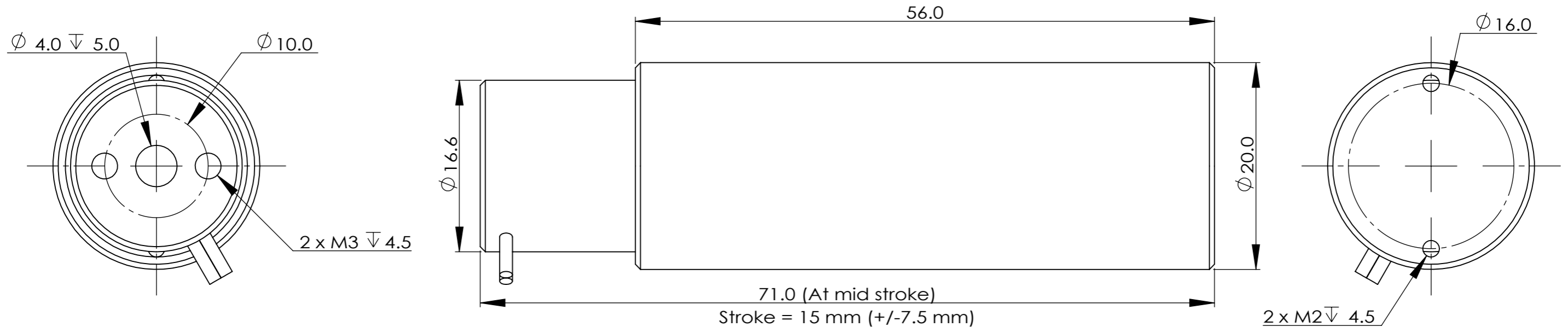
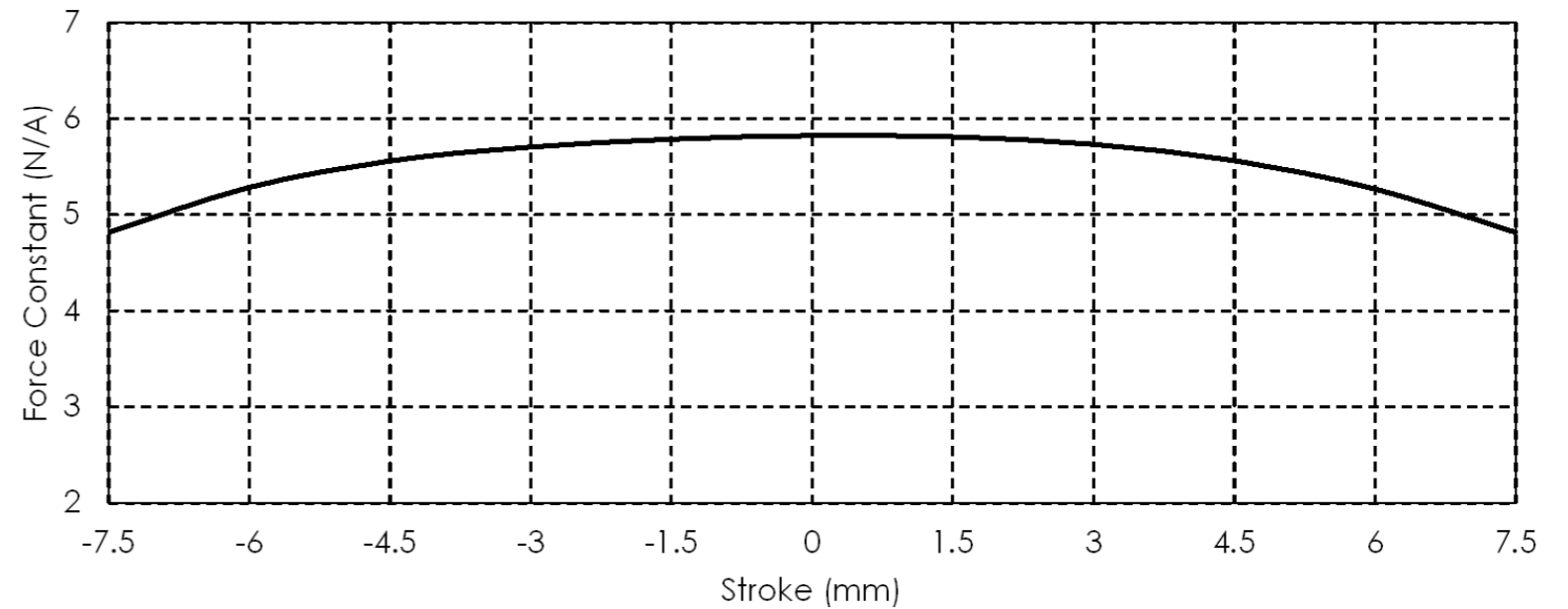
[3] Resistance is measured by DC current with 0.5 m lead wire.

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

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

# AVM20-HF-15

REV	DESCRIPTION	BY	DATE	APPD
0	INITIAL RELEASE	SY Y	2021/11/5	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	SY Y	2021/11/4
Drawn	SY Y	2021/11/4
Checked	YH	2021/11/5
Approved	YX	2021/11/5
Material	NA	
Surface Treatment	NA	
Heat Treatment	NA	
Quantity	NA	



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Model:	AVM20-HF-15_Customer Drawing
Title:	AVM20-HF-15_Customer Drawing
Dwg No:	AVM20-HF-15
Sheet:	1 OF 1
Rev:	0