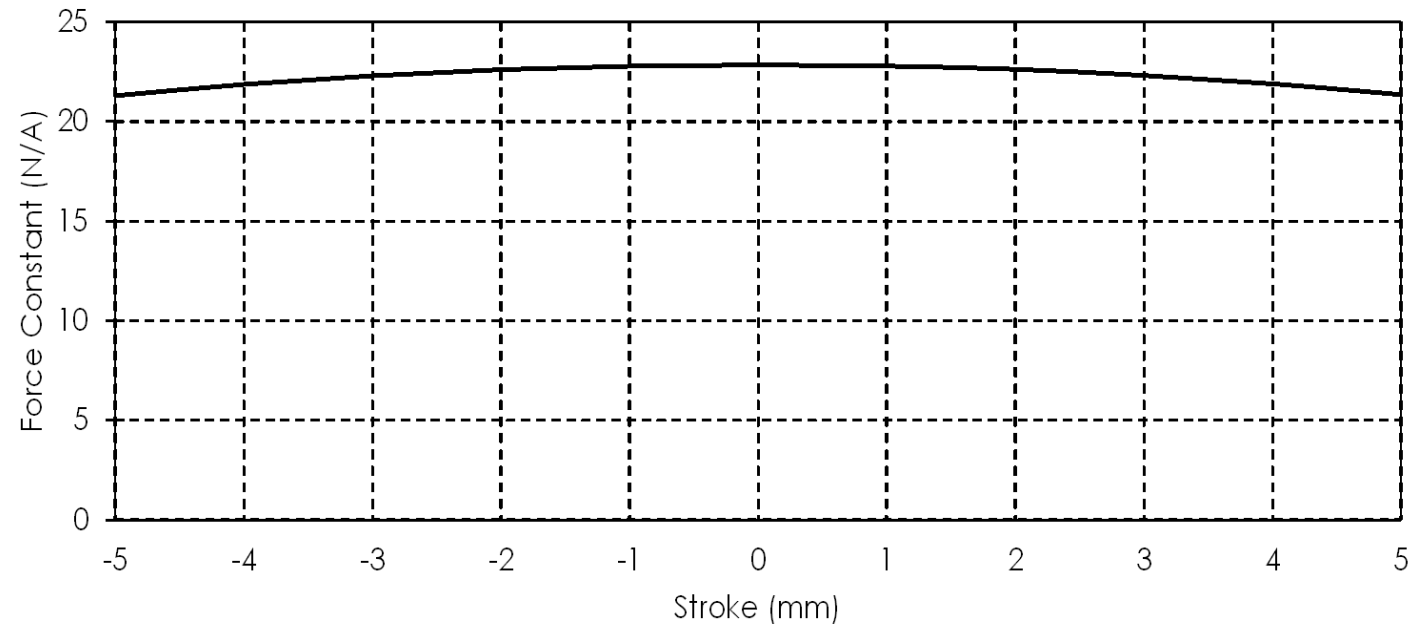


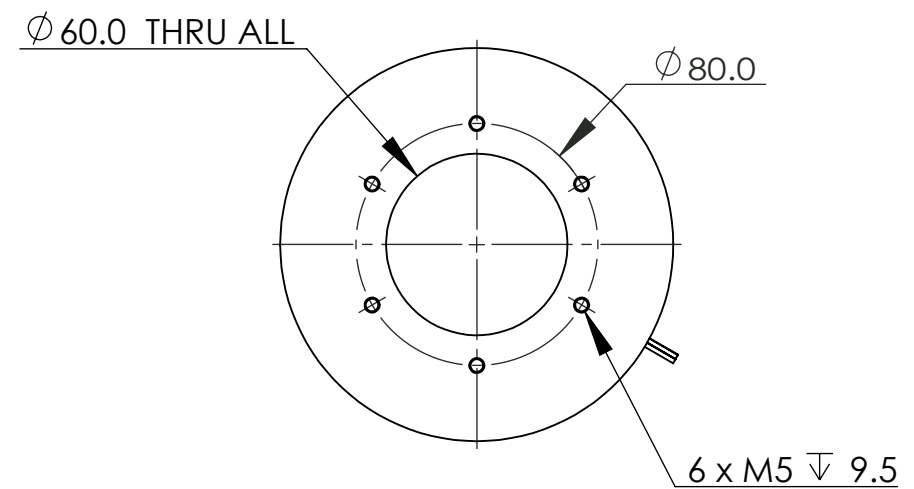
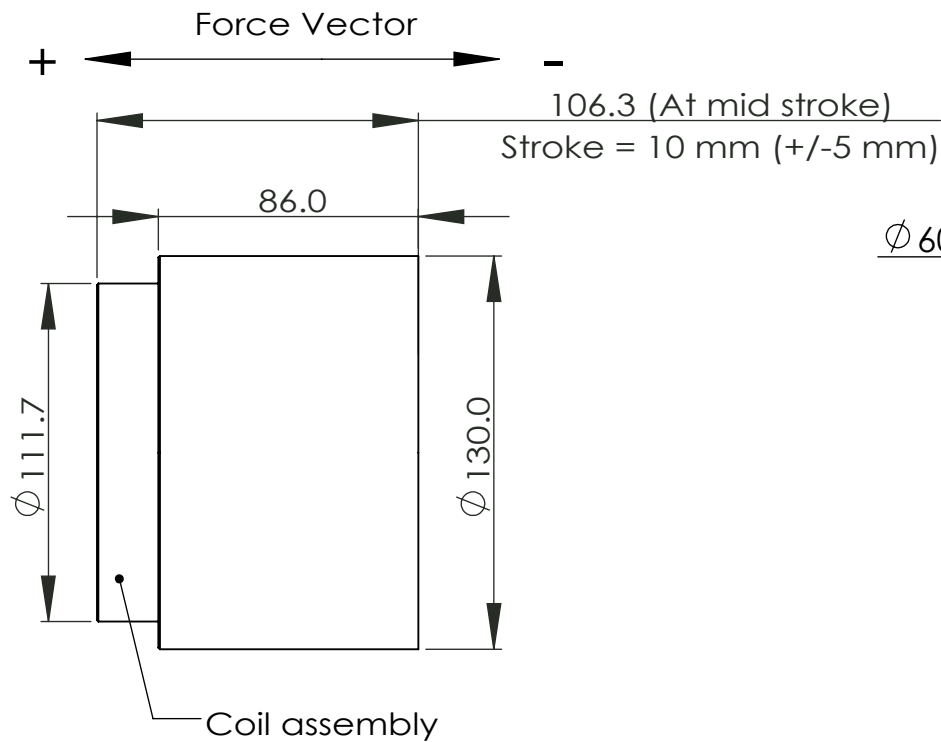
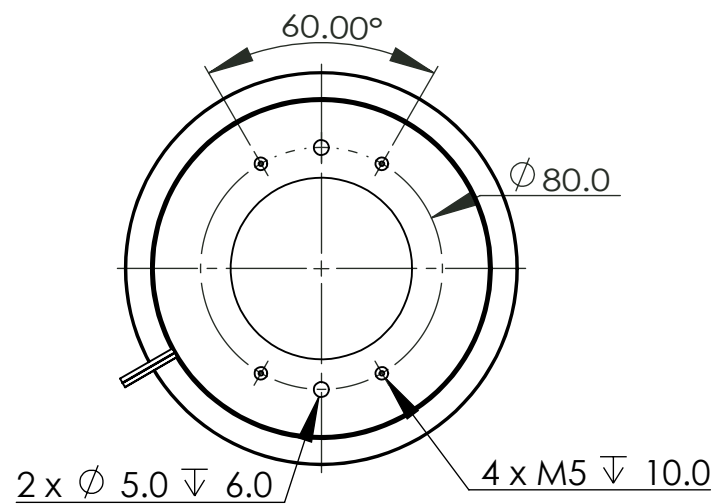
Performance Parameters	Symbol	Unit	AVM130-HF-10
Stroke	S	mm	10.0
Continuous Force @100°C <sup>[1][2]</sup>	F <sub>c</sub>	N	150.8
Peak Force <sup>[2]</sup>	F <sub>pk</sub>	N	452.3
Force Constant ±10% <sup>[2]</sup>	K <sub>f</sub>	N/A	22.8
Back EMF Constant ±10% <sup>[2]</sup>	K <sub>e</sub>	V/(m/s)	22.8
Motor Constant @25°C <sup>[2]</sup>	K <sub>m</sub>	N/Sqrt(W)	26.4
Resistance @25°C ±10% <sup>[3]</sup>	R <sub>25</sub>	Ω	0.75
Inductance ±20% <sup>[4]</sup>	L	mH	0.75
Electrical Time Constant	T <sub>e</sub>	ms	1.00
Continuous Current @100°C <sup>[1]</sup>	I <sub>c</sub>	A	6.60
Peak Current	I <sub>pk</sub>	A	19.8
Continuous Power Dissipation @100°C <sup>[1]</sup>	P <sub>c</sub>	W	42.1
Max. Coil Temperature	t <sub>max</sub>	°C	120
Thermal Dissipation Constant <sup>[1]</sup>	K <sub>th</sub>	W/°C	0.56
Max. Voltage	U <sub>max</sub>	Vdc	120
Coil Mass	m <sub>coil</sub>	g	1080.0
Core Mass	m <sub>core</sub>	g	5300.0
Running Clearance	L <sub>gap</sub>	mm	0.55

# AVM130-HF-10

REV	DESCRIPTION	BY	DATE	APPD
0	INITIAL RELEASE	SL	2021/10/26	YX
1	Add cable information , update the parameter table	WSM	2022/7/1	YX



[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.



**NOTE:**  
 1. LEAD WIRE ( Rohs, Reach applicable ) : 18 AWG , Number of strands : 1  
 Insulation O.D.=1.83 mm , Color : white and black , Bending radius: 14.6 mm ;  
 2. The default cable length is 0.5 m; Coming with flying leads, which can be used in cablecovey for motion ;  
 3. A positive(+) voliage applied to the white lead will produce a force on the coil assembly in the negative (-) direction.

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 AKRIBIS SYS PTE LTD

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:	AVM130-HF-10
Title :	AVM130-HF-10_Customer Drawing
Dwg No:	AVM130-HF-10
Sheet:	1 OF1
Rev:	1