



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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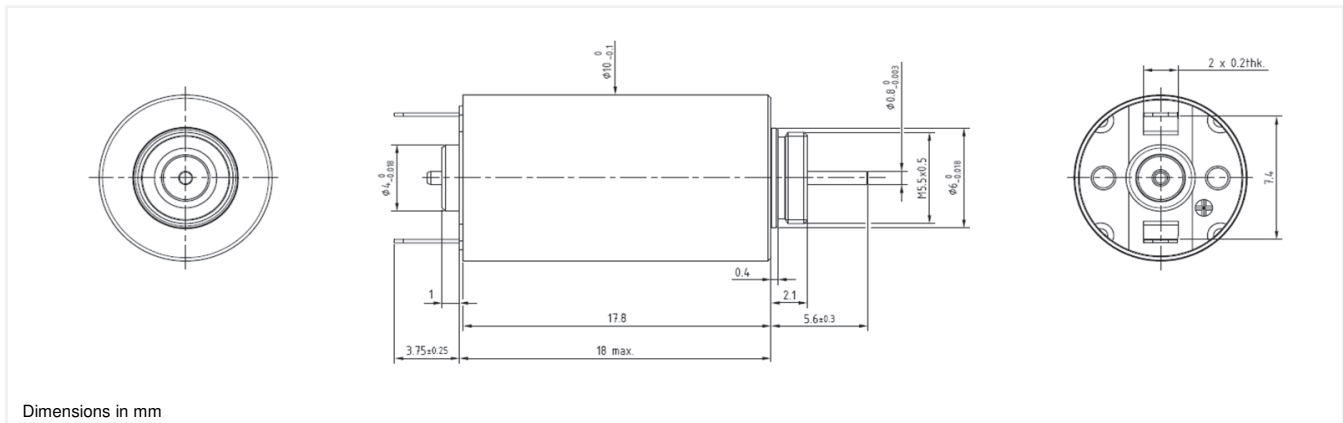


10NS61 Athlonix™

Precious metal commutation

Ø10mm

0.9 mNm



Dimensions in mm

10NS61 **** .5

Electrical Data	****	107C	105C	104C	
1 Nominal Voltage	V	3	6	9	Volt
2 No-Load Speed	n_0	10,100	10,400	10,700	rpm
3 No-Load Current	I_0	11.0	4.2	3.6	mA
4 Terminal Resistance	R	10.8	43.0	98.0	Ω
5 Output Power	P_{2max}	0.7	0.7	0.7	W
6 Stall Torque	mNm	0.76 (0.11)	0.75 (0.11)	0.71 (0.1)	mNm (oz-in)
7 Efficiency	η_{max}	64	68	64	%
8 Max Continuous Speed	$n_{e max}$	10,000	10,000	10,000	rpm
9 Max Continuous Torque	$M_{e max}$	0.9 (0.13)	0.9 (0.13)	0.85 (0.13)	mNm (oz-in)
10 Max Continuous Current	$I_{e max}$	0.34	0.17	0.12	A
11 Back-EMF Constant	k_E	0.29	0.57	0.81	mV/rpm
12 Torque Constant	k_M	2.72	5.40	7.70	mNm/A
13 Motor Regulation	R/k^2	1,500.0	1,500.0	1,600.0	$10^3/Nms$
14 Friction Torque	T_F	0.02 (0.01)	0.02 (0.01)	0.02 (0.01)	mNm (oz-in)
15 Rotor Inductance	L	0.01	0.02	0.03	mH
16 Mechanical Time Constant	t_m	7.3	7.3	8.1	ms
17 Rotor Inertia	J	0.05	0.05	0.05	$g.cm^2$
General Data					
18 Thermal Resistance (rotor/body)	R_{th1} / R_{th2}		23/48		$^{\circ}C/W$
19 Thermal Time Constant (rotor/stator)	t_{w1}/t_{w2}		5/150		S
20 Operating Temperature Range:	motor		-30 $^{\circ}C$ to 85 $^{\circ}C$ (-22 $^{\circ}F$ to 185 $^{\circ}F$)		$^{\circ}C$ ($^{\circ}F$)
	rotor		100 $^{\circ}C$ (212 $^{\circ}F$)		$^{\circ}C$ ($^{\circ}F$)
21 Shaft Load Max.:			With sleeve bearings		
(2 mm from bearing)	-radial		0.5 (1.8)		N (oz)
	-axial		30 (107.9)		N (oz)
22 Shaft Play:	-radial		<0.015 (0.0006)		mm (inch)
	-axial		0.100 (0.0039)		mm (inch)
23 Weight	g		16 (0.57)		g (oz)

Execution	
Gearbox	Single Shaft
R10	3

