

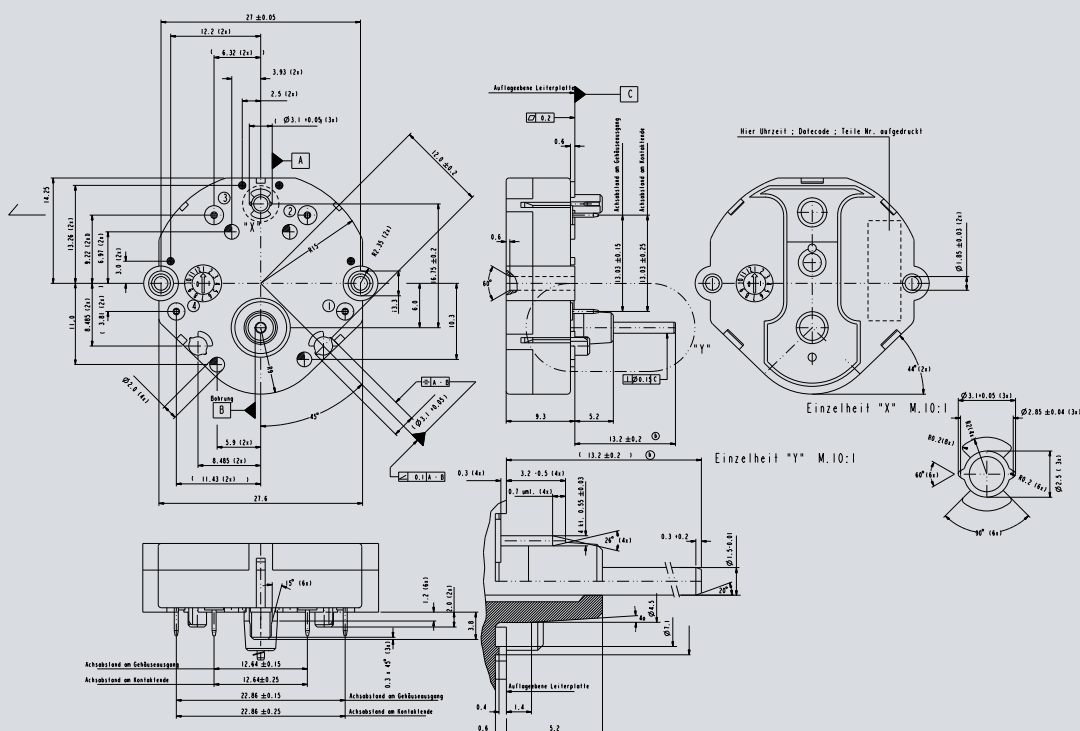
Stepper motor 10

Technical data

Part N°	93-00010-0002
Nominal Torque	2.0 mNm
Weight	7 g
Output Shaft	Diameter 1.5 mm h6
Position on PCB	Rear Mount
Shaft length	13.2 mm
Internal stop	yes



Dimensions



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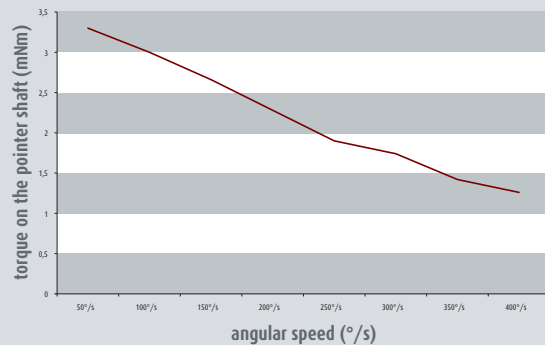
Electrical and mechanical characteristics

Stepper motor 10

Variables

Temperature 22°
 Voltage 5V +-0.1

Dynamic characteristics



Parameter	Min.	Typ.	Max.	Unit
Rotor step angle		45		degree
Gear ratio		1:75		
Pole pairs rotor		2		
Step angle full step mode		0.6		degree
Step angle micro step mode		0.0375		degree
Operating angle	298	300		degree
Operating temperature	- 40		105	°C
Storage temperature	- 40		105	°C
Soldering temperature (max. 5 sec)			290	°C
Operating voltage	4.5		9	V
Operating current		18	35	mA
Coil resistance	260	280	300	Ohm
Coil intudance		300		mH
Torque @ 200 degree/sec	1.6	2		mNm
Static torque	0.3	0.5		mNm
Holding torque (with current, 5V)		3.0		mNm
Noise level @ 200, degree/sec @ 5 cm from the reference face, pre-test		35	45	db(A)
Maximum speed	600			°/s
Equivalent motor inertia at output based on 2.5 g pointer and unbalance of 0.05 mNm		200		g mm ²
Axial force (with retention of the housing)			100	N
Radial force at 10 mm from front face of motor			12	N
Linearity			+ - 0.35	degree
Smoothness			0.42	degree