



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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

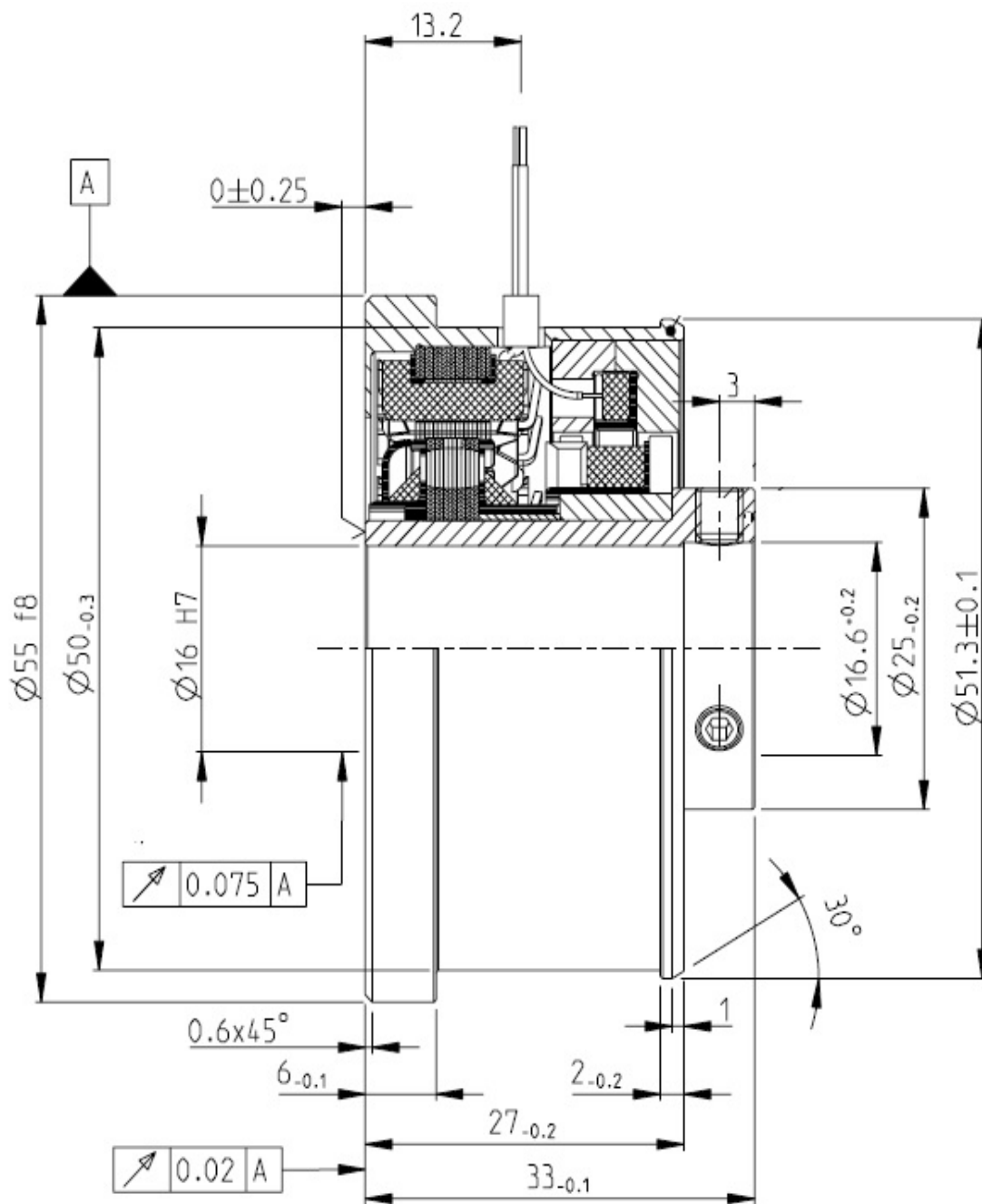
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



DATA SHEET - HOLLOW SHAFT RESOLVER

| | | | | |
|---|---|--|--------------------------------|----|
| PN | 3-1393048-1 | | | |
| Description: | V23401 | H9019-B901 | | |
| Size | 21 | | | |
| Shaft | B9 | | | |
| Speed - pair of poles - [pp] | 1 | | | |
| Application Spec | | | | |
| Test protocol | 100% EOL testing, stored. Available up on request | | | |
| Electrical parameters (at 22°C): | | | | |
| Input voltage nom. [V _{rms}] | 7.0 | Based on nominal Input voltage and Frequency | DC resistance R1R2 [Ω] | 21 |
| Frequency nom. [kHz] | 7.0 | | R1R2 tolerance [±%] | 10 |
| Input current max [mA] | 40 | | DC resistance S1S3 or S2S4 [Ω] | 22 |
| Transformation ratio rT [±] | 0.45 | | S1S3 or S2S4 tolerance [±%] | 10 |
| Transf. ratio tolerance [%] | 5 | | | |
| Phase shift min [°] | -9 | | | |
| Phase shift max [°] | 1 | | | |
| Angular Error max ['] | 20 | | | |
| Residual voltage max [mV] | 25 | | | |
| Connect. Wire Length [mm] | 470, AWG 26 Teflon Isolated | | | |
| High Voltage test | Voltage: 500 V _{AC} ± 3% (A) | Measured between: | | |
| | 250 V _{AC} ± 3% (B) | A: Winding R1-R2 and housing | | |
| | Time: 1s | Winding S1-S3 and housing Winding S2-S4 and housing | | |
| Isolation test | Voltage: 500 V _{DC} ± 5% (A, B) | B: Windings S1-S3 and S2-S4 | | |
| | Criterion: R _{isol.} > 50M Ohm | | | |
| "Zero" setting: | Ele. "0" is when Winding Us2-s4 = 0 and Us1-s3 are in phase with Ur1-r2 | | | |
| Transformation function | Function applies to the clockwise rotation of the rotor when looking at the (grooveless) transformer component from the top | | | |
| | $U_{S1-S3} = + rT * U_{R1-R2} * \cos(pp * \varphi)$ | | | |
| | $U_{S2-S4} = + rT * U_{R1-R2} * \sin(pp * \varphi)$ | | | |
| Rotor Inertia | approx. 20 g/cm ² | | | |
| Max. Rotational Speed | 20.000 rpm | | | |
| Shock resistance (11ms sine) | 1000 m/s ² | | | |
| Vibration (0 ... 2 kHz) | 200 m/s ² | | | |
| Operating temp. | -55°C...+150°C | | | |



| DATE | REV. | DWN | APP | LTR |
|------------|------|----------------|-----------|-----|
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| 2015-06-25 | B | P. Lerchenfeld | D. Ondrej | 1 |