imall

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

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Trackball **Miniature All-direction Navigation Switch**

Features/Benefits

- 8 mm ball ergonomic design allows ease of use in all directions
- Positive tactile feedback
- Integrated lighting (up to 2 LEDs) •
- ESD protected •
- **RoHS compliant** •
- IP54

Construction

FUNCTION:

TERMINALS:

All-direction scanning + select CONTACT TYPE: Normally open Flex with 11 terminals 0.5 mm pitch, gold plated

Mechanical

SCANNING	
ROTATING FORCE:	0.35 N ± 0.1 N
SELECT	
SELECTING FORCE:	2.2 N ± 25%
TACTILE FEELING:	≥ 30%
ELECTRICAL TRAVEL (Te):	0.24 mm ± 0.05 mm
SIMULTANEITY (Tm – Te):	≤ 0.12 mm
TOTAL TRAVEL:	0.33 mm ± 0.05 mm

Note: Specifications listed above are for switches with standard options.

Typical Applications

- **Remote controls**
- Navigation systems
- Keyboards, notebooks, PC mouse
- Game controllers



Electrical (select function)

MAXIMUM POWER:	0.20 VA
MIN./MAX. VOLTAGE.:	20 mVdc - 32 Vdc
MIN./MAX. CURRENT:	1.0 mA - 50mA
DIELECTRIC STRENGTH:	> 200 Vrms
CONTACT RESISTANCE:	$<$ 1000 m Ω
BOUNCE TIME:	≤ 3ms
CAPACITY:	≤ 5pF

Environmental

OPERATING TEMPERATURE: -30°C to +85°C STORAGE TEMPERATURE: **RELATIVE HUMIDITY:** SELECT OPERATING LIFE: VIBRATIONS: MECHANICAL SHOCKS: OVERLOAD:

-30°C to +85°C 90 to 95% HR According to NF EN 60068-2-30 SCANNING OPERATING LIFE: 300,000 cycles in each 4 main directions ≥ 500,000 cycles 10 to 500Hz - 5G - 23 min. per axis According to NF EN 60068-2-27 20 N

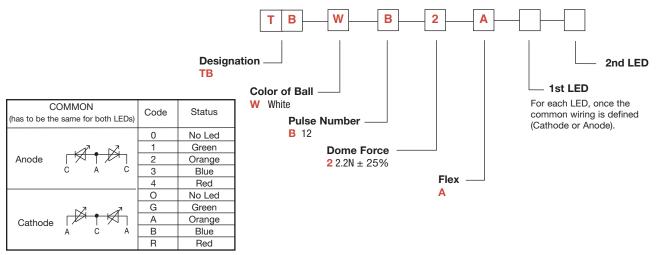
Packaging

Plastic trays of 40 pieces

С

How To Order

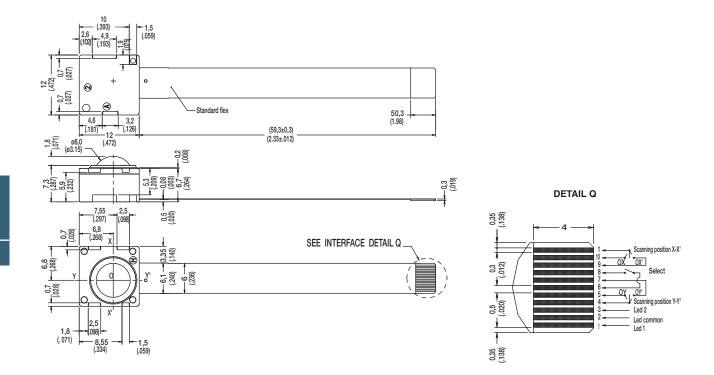
To order, simply select desired option from each category and place in the appropriate box. For additional options not shown in catalog, consult our Customer Service Center.



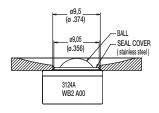


www.ck-components.com

Trackball Miniature All-direction Navigation Switch



INTEGRATION EXAMPLE



Each piece is date code printed: 1st Line: 3124A = 3 is Year, 124 is day in the year, A is shift identification 2nd Line: WB2 A00 = Reference of the product.



C&K

Navigation O

Specifications and dimensions subject to change