



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

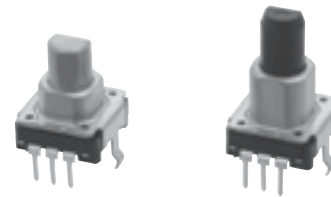


12 mm Square GS Encoders with Push-on Switch

Type: **EVEJB**

■ Features

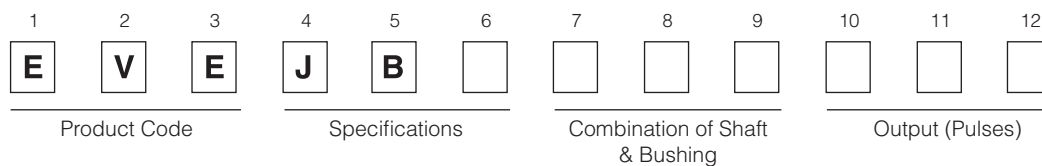
- Thin type encoder with vertical push-on switch
- Insulated shaft or metal shaft types are available



■ Recommended Applications

- Volume and tone control for audio/visual and car audio equipment
- Tuner for communication units
- Mode selection for measurement instruments

■ Explanation of Part Numbers



■ Specifications

Mechanical	Rotation Angle		360 ° (Endless)
	Shaft Pull/Push Strength		80 N min.
	Shaft Wobble		0.7×L/30 mm max.
	Rotation Torque		3 mN·m to 20 mN·m
	Detents		20 points
Electrical	Output Signals		Phase A and B
	Resolution		20 pulses/360 °
	Rating		1 mA 10 V DC
	Contact Resistance		1 Ω max.
	Chattering		2 ms max.
	Insulation Resistance		10 MΩ min. (at 50 V DC)
	Dielectric Withstanding Voltage		50 VAC for 1 minute
	Bouncing		5 ms max.
Switch Part	Type		SPST Push-on
	Rating		20 mA 16 V DC
	Contact Resistance		100 mΩ max.
	Operating Force		3 N, 6 N
	Travel		0.4 mm
Endurance	Operating Life	Encoder	30,000 cycles min.
		Switch	15,000 cycles min.
	Operating Temperature		-10 °C to +60 °C
	Storage Temperature		-40 °C to +85 °C
Minimum Quantity/Packing Unit			100 pcs. Polyethylene Bag(Bulk)
Quantity/Carton			500 pcs.

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

■ Dimensions in mm (not to scale)

- Standard rotation-torque / Bushing Type with Sleeve / with Switches.....With detents : EVEJBB

No. 1 General dimension tolerance : ± 0.5
() dimensions are reference dimensions.

Technical drawing for No. 1 showing front, side, and encoder side views of an encoder. Dimensions include L1, L2, 5.0, 7.0, 7.5, 3.65, 0.4, 12.4, 8.0, R4.5, SW, COM, A, B. Labels include "Operation stroke" and "Mounting surface".

- Standard rotation-torque / Bushing Type with Sleeve / with Switches.....With detents : EVEJBE

No. 2 General dimension tolerance : ± 0.5
() dimensions are reference dimensions.

Technical drawing for No. 2 showing front, side, and encoder side views of an encoder. Dimensions include L1, L2, 5.0, 7.0, 7.5, 3.65, 0.3, 12.4, 8.0, R4.5, SW, COM, A, B. Labels include "Operation stroke" and "Mounting surface".

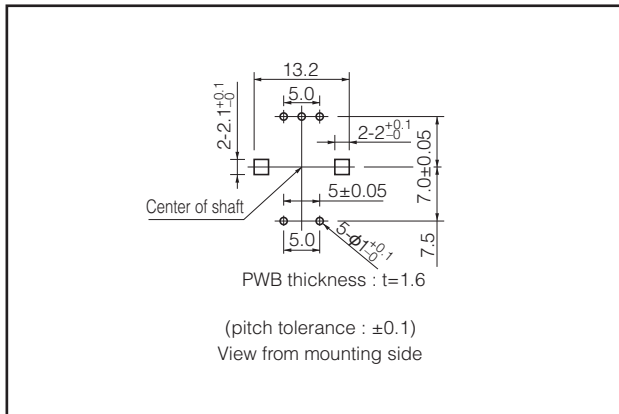
■ Shaft Trims and Dimensions in mm

Shaft Type	Dimensions			
	L ₁	L ₂	L ₃	Corner Cut
Metal	15.0 mm	4.0 mm	5.0 mm	0.5 mm
Insulated	20.0 mm	7.0 mm	6.0 mm	1.5 mm
	25.0 mm	9.0 mm	10.0 mm	1.5 mm

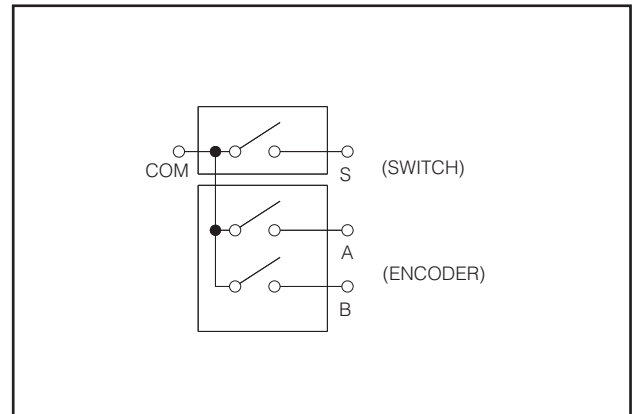
Technical drawing of a shaft with dimensions L₁, L₂, L₃, 4.5, 0.1, 6.0, 0.1 and a "Corner Cut" label.

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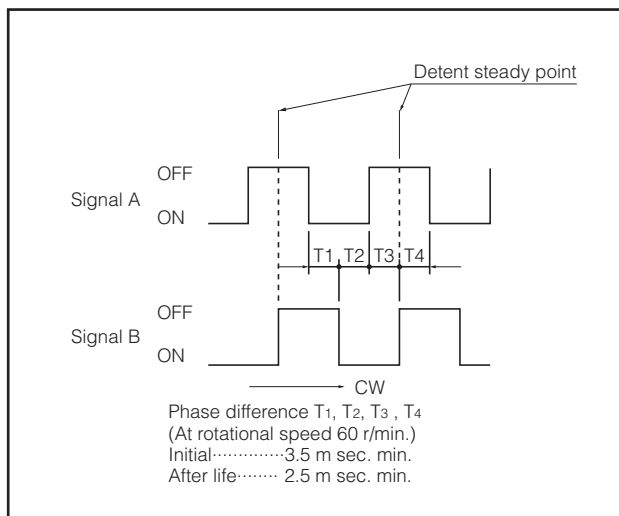
■ PWB mounting hole for reference



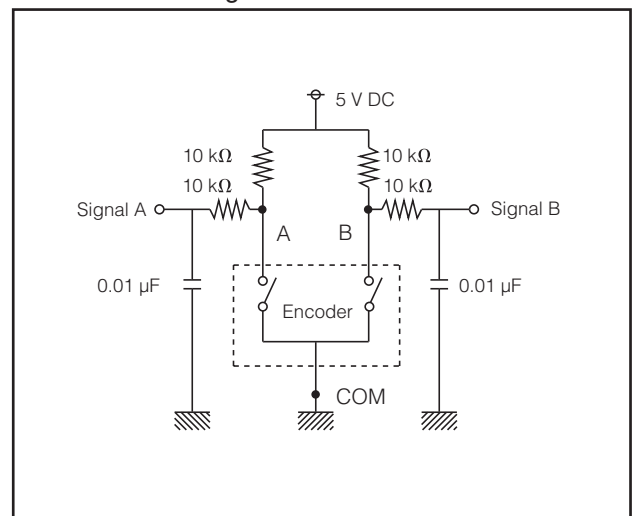
■ Encoder / Switch Circuit



■ Phase Difference



■ Test Circuit Diagram



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