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

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



Panasonic

12 mm Square GS Encoders

Type: EVEG/EVEH/EVEK/EVEL

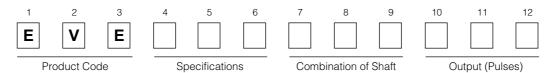
Features

- Lineup of high rotation-torque-type (50 mN·m)
- A wide range of standard products

Recommended Applications

- Volume for audio/visual equipment
- Tuner for communication units
- Mode selection for measurement instruments

Explanation of Part Numbers



Product Chart

	Combination of Bushing			Height						Detents (Resolution/Pulses)		
Torque type			Thickness	15.0 mm	17.5 mm	20.0 mm	22.5 mm	25.0 mm	30.0 mm	12 points (12 pulses)	24 points (24 pulses)	Without detents (12 pulses, 24 pulses)
Heavy-rotation	Die-cast	(7.0,12.0 mm)	5.5 mm					0	0			0
torque (10 mN·m to 50 mN·m)	Sleeve	(7.0,12.0 mm)	5.5 mm					0	0			0
	Barling	(5.0 mm)	5.0 mm		0	0	0	0		0	0	0
Standard type	Barling	(1.6 mm)	5.0 mm	0						0	0	0
(3 mN·m to 20 mN·m)	Die-cast	(7.0 mm)	5.5 mm			0	0	0		0	0	0
	Sleeve	(7.0 mm)	5.5 mm			0	0	0		0	0	0

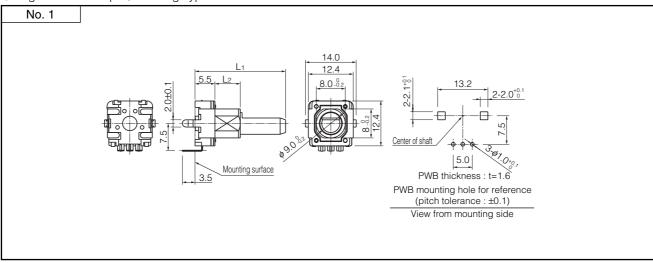
Specifications

	Rotation Angle			360 ° (F	-ndlass)				
	Shaft Pull/Push S	Strength	360 ° (Endless) 80 N min.						
Mechanical	Shaft Wobble	Strength	0.7xL/30 mm max.						
		Standard Type	3 mN·m to 20 mN·m						
	Rotation Torque								
		Heavy Rotation Torque	10 mN·m to 50 mN·m						
	Detents		12 points, 20 points, 24 points, without detents (Heavy rotation-torque without detents)						
	Output Signals			Phase A and B					
	Resolution		12, 20, 24 pulses/360 °						
Electrical	Rating		1 mA 5 Vdc, 1 mA 10 Vdc						
	Contact Resistar	ice	1 Ω max.						
	Chattering		2 ms max.						
	Insulation Resista	ance	10 M Ω min. (at 50 Vdc)						
	Dielectric Withsta	anding Voltage	50 Vac for 1 minute						
	Bouncing			5 ms max.					
Fodurence	Operating Life	Standard Type	30000 cycles min.						
	Operating Life	Heavy Rotation Torque	15000 cycles min.						
Endurance	Operating Tempe	erature	-10 °C to +60 °C						
Storage Tempera		ature	-40 °C to +85 °C						
Minimum Quantity/Packing Unit			L≦25.0 mm	100 pcs. Polyethylene Bag(Bulk)	L>26.0 mm	200 pcs. Polyethylene Bag(Bulk)			
Quantity/Carton			L≦25.0 mm	1000 pcs.	L>26.0 mm	2000 pcs.			

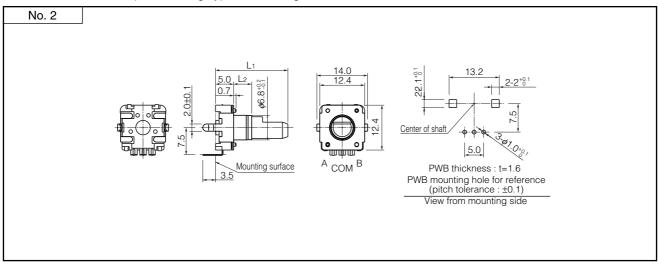
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

Panasonic

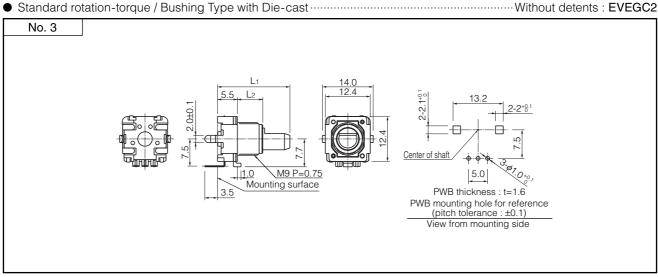
Dimensions in mm (not to scale)



With detents : EVEGA1



With detents : EVEGC1



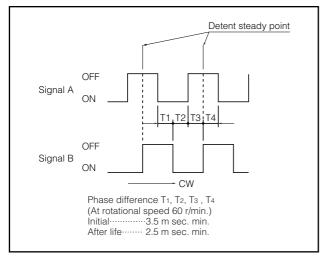
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

Panasonic

■ Shaft Trims and Dimensions in mm

Pushing Tung		Dimer	nsions		
Bushing Type	Lı	L2	L3	Corner Cut	
Barling	15.0 mm	1.6 mm	7.0 mm	1.5 mm	
	17.5 mm	5.0 mm	5.0 mm	1.5 mm] + <u>L1</u>
	20.0 mm	5.0 mm	7.0 mm	1.5 mm	
	22.5 mm	5.0 mm	7.0 mm	1.5 mm	
	25.0 mm	5.0 mm	12.0 mm	1.5 mm	
Sleeve	20.0 mm	7.0 mm	7.0 mm	1.5 mm	
	22.5 mm	7.0 mm	7.0 mm	1.5 mm	┨ <u>╷┟╴</u> ┟╴╖╴╴- └╴╴┼
	25.0 mm	7.0 mm	12.0 mm	1.5 mm	
	* 30.0 mm	7.0 mm	* 12.0 mm	* 1.5 mm	
Die-cast	20.0 mm	7.0 mm	7.0 mm	1.5 mm	
	22.5 mm	7.0 mm	7.0 mm	1.5 mm	
	25.0 mm	7.0 mm	12.0 mm	1.5 mm	
	* 30.0 mm	12.0 mm	* 12.0 mm	* 1.5 mm	*High-rotation torque

Phase Difference



Test Circuit Diagram

