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

1	2	3	4	5	6	7	8	9	10	11	12
E	V	E									
Pr	oduct Cod	le	Sp	ecificatio	ons	Comb	ination of	Shaft	0	utput (Pul	ses)

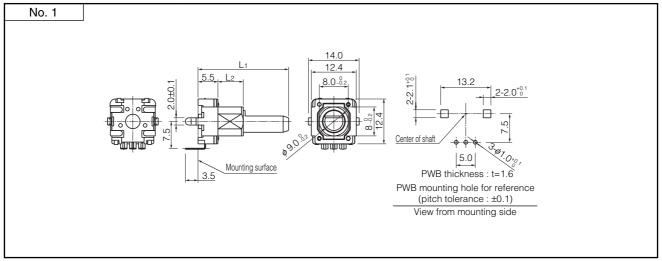
■ Product Chart

	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		(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
Standard type (3 mN·m to 20 mN·m)	Barling	(5.0 mm)	5.0 mm		0	0	0	0		0	0	0
	Barling	(1.6 mm)	5.0 mm	0						0	0	0
	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

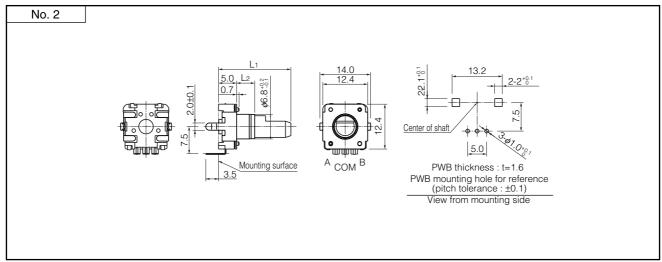
■ Specifications

	Dotation Aprila		260 % (Endless)						
Mechanical	Rotation Angle		360 ° (Endless)						
	Shaft Pull/Push S	Strength	80 N min.						
	Shaft Wobble		0.7xL/30 mm max.						
	Potetion Torque	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 °						
	Rating		1 mA 5 Vdc, 1 mA 10 Vdc						
Electrical	Contact Resistan	nce	1 Ω max.						
Electrical	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.						
Endurance	Operating Life	Standard Type	30000 cycles min.						
	Operating Life	Heavy Rotation Torque	15000 cycles min.						
	Operating Temperating	erature	−10 °C to +60 °C						
	Storage Tempera	ature	-40 °C to +85 °C						
Minimum Qua	ntity/Packing Unit	L≦25.0 mm	100 pcs. Polyethylene Bag(Bulk)	L>26.0 mm	200 pcs. Polyethylene Bag(Bulk)				
Quantity/Carto	on	L≦25.0 mm	1000 pcs.	L>26.0 mm	2000 pcs.				

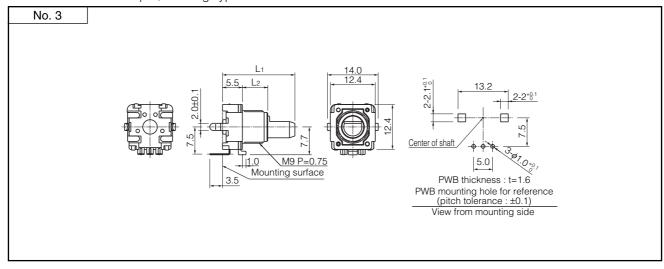
- Dimensions in mm (not to scale)



With detents : EVEGA1

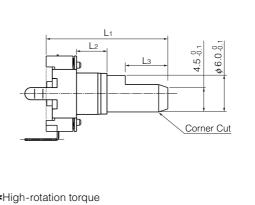


With detents : EVEGC1

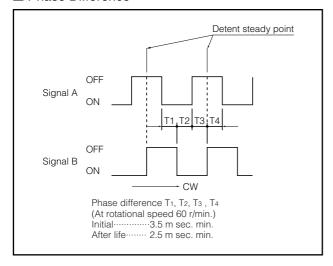


■ Shaft Trims and Dimensions in mm

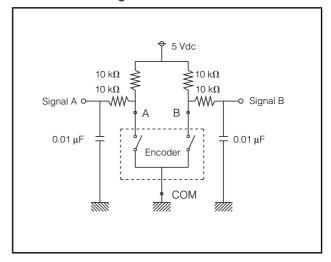
		Dima	nsions		
Bushing Type					
Bushing Type	L ₁	L ₂	Lз	Corner Cut	
	15.0 mm	1.6 mm	7.0 mm	1.5 mm	
Barling	17.5 mm	5.0 mm	5.0 mm	1.5 mm	+ L
	20.0 mm	5.0 mm	7.0 mm	1.5 mm	L2
	22.5 mm	5.0 mm	7.0 mm 1.5 mm		
	25.0 mm	5.0 mm	12.0 mm	1.5 mm	
	20.0 mm	7.0 mm	7.0 mm	1.5 mm	
Sleeve	22.5 mm	7.0 mm	7.0 mm	1.5 mm	
Sieeve	25.0 mm	7.0 mm	12.0 mm	1.5 mm	
	* 30.0 mm	7.0 mm	* 12.0 mm	* 1.5 mm	
	20.0 mm	7.0 mm	7.0 mm	1.5 mm	
Die-cast	22.5 mm	7.0 mm	7.0 mm	1.5 mm	
Die-Cast	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



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panasonic:

 EVEGA1F2012M
 EVEGA1F2024M
 EVEGA1F2224M
 EVEGB1F1524M
 EVEGC1F2012M
 EVEGC1F2024M

 EVEGC1F2524M
 EVEGC2F2024M
 EVEKC2F2024M
 EVEKC2F2524M
 EVEKE2F2024M
 EVEKE2F2024M

 EVEKE2F2524M
 EVEKE2F3024M
 EVE-GA2F2024M
 EVE-GA1F2012M
 EVE-KE2F2024M
 EVE-KE2F2024M

 GC1F2524M
 EVE-GA1F2012M
 EVE-GA1F2012M
 EVE-GA1F2012M