

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Panasonic Electronic Components](#)
[EVE-GA1F1724M](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

Panasonic

Encoders/EVEG/H/K/L

12 mm Square GS Encoders

Malaysia

Type: **EVEG/EVEH/EVEK/EVEL**

■ Features

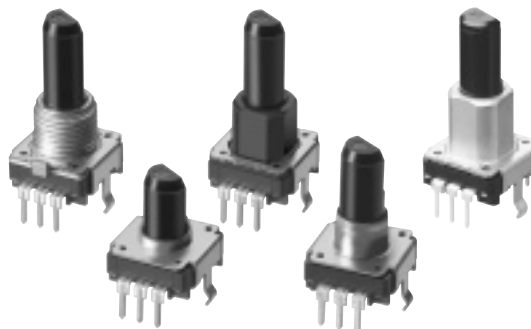
- Lineup of high rotation-torque-type (50 mN·m)
- A wide range of standard products

■ Recommended Applications

- Volume and tone control 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									
Product Code			Specifications			Combination of Shaft			Output (Pulses)		



■ Product Chart

Torque type	Combination of Bushing	Thickness	Height						Detents (Resolution/Pulses)		
			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 torque (10 mN·m to 50 mN·m)	Die-cast (7.0,12.0 mm)	5.5 mm					○	○			○
	Sleeve (7.0,12.0 mm)	5.5 mm					○	○			○
	Barling (5.0 mm)	5.0 mm		○	○	○	○		○	○	○
Standard type (3 mN·m to 20 mN·m)	Barling (1.6 mm)	5.0 mm	○						○	○	○
	Die-cast (7.0 mm)	5.5 mm			○	○	○		○	○	○
	Sleeve (7.0 mm)	5.5 mm			○	○	○		○	○	○

■ Specifications

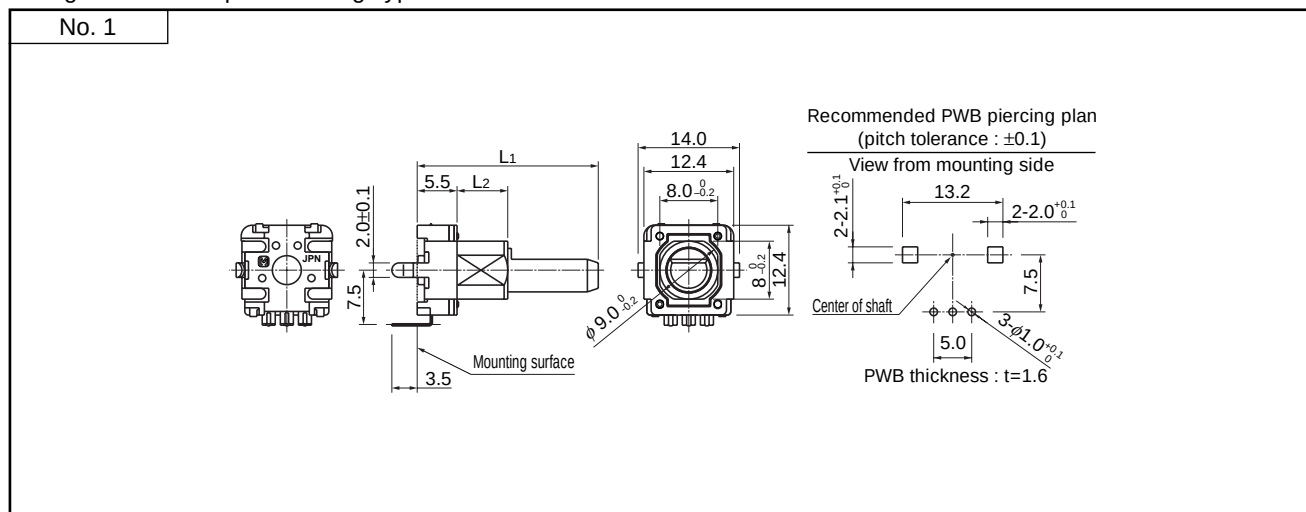
Mechanical	Rotation Angle		360 ° (Endless)			
	Shaft Pull/Push Strength		80 N min.			
	Shaft Wobble		0.7×L/30 mm max.			
	Rotation Torque	Standard Type	3 mN·m to 20 mN·m			
		Heavy Rotation Torque	10 mN·m to 50 mN·m			
Detents			12 points, 20 points, 24 points, without detents (Heavy rotation-torque without detents)			
Electrical	Output Signals		Phase A and B			
	Resolution		12, 20, 24 pulses/360 °			
	Rating		1 mA 5 Vdc, 1 mA 10 Vdc			
	Contact Resistance		1 Ω max.			
	Chattering		2 ms max.			
	Insulation Resistance		10 MΩ min. (at 250 Vdc)			
	Dielectric Withstanding Voltage		50 Vac for 1 minute			
	Bouncing		5 ms max.			
Endurance	Operating Life	Standard Type	30000 cycles min.			
		Heavy Rotation Torque	15000 cycles min.			
	Operating Temperature		-10 °C to +60 °C			
	Storage Temperature		-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.

Panasonic

Encoders/EVEG/H/K/L

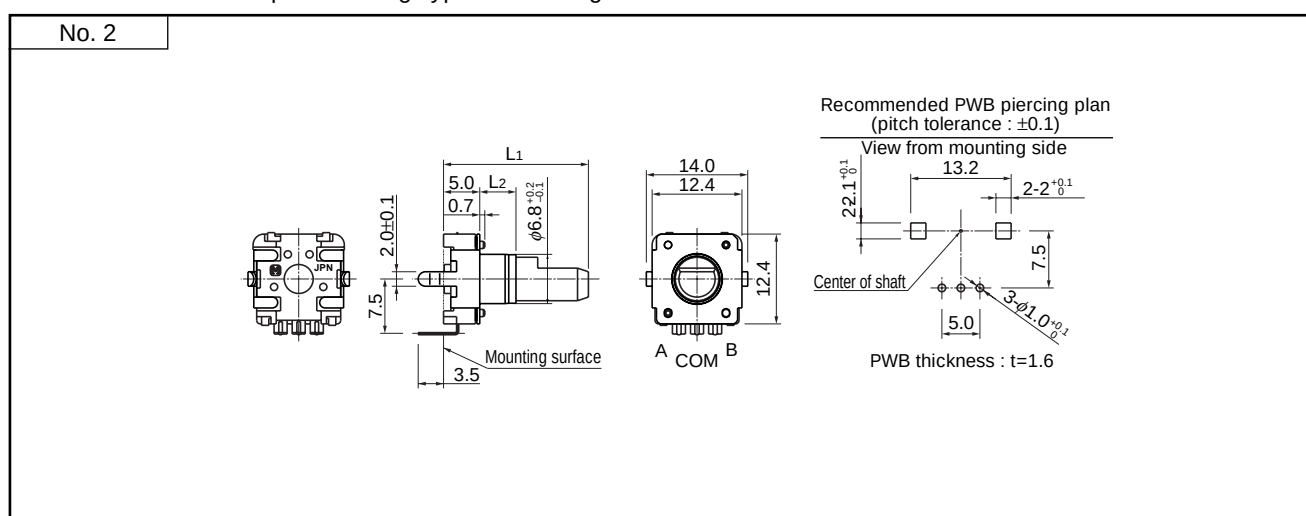
■ Dimensions in mm (not to scale)

● High rotation-torque / Bushing Type with Sleeve Without detents : EVEKE2



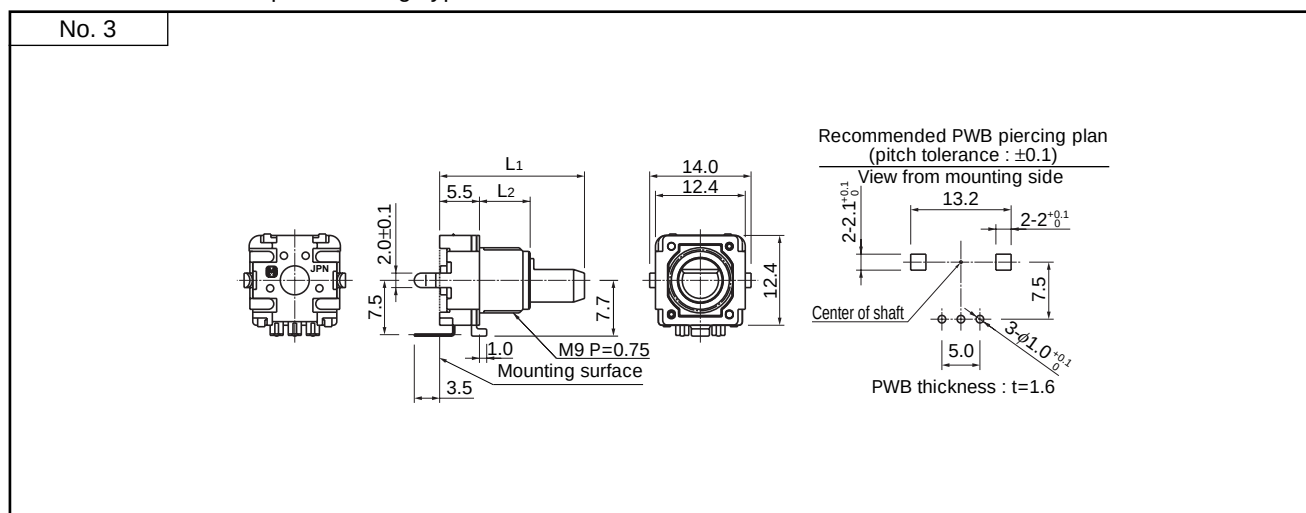
With detents : EVEGA1

● Standard rotation-torque / Bushing Type with Barling Without detents : EVEGA2



With detents : EVEGC1

● Standard rotation-torque / Bushing Type with Die-cast Without detents : EVEGC2

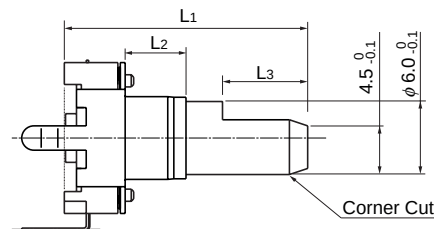


Panasonic

Encoders/EVEG/H/K/L

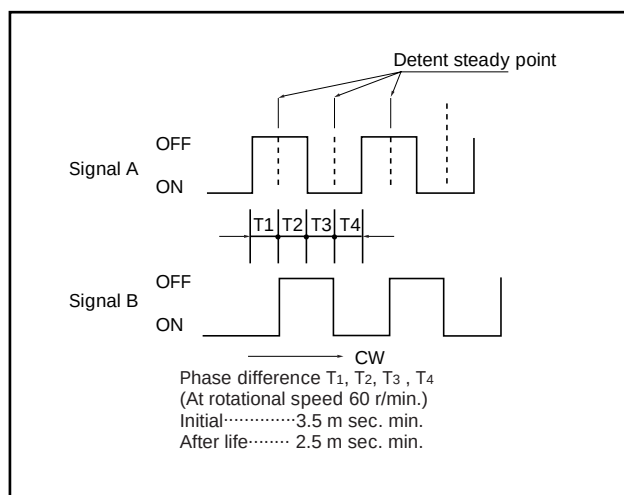
■ Shaft Trims and Dimensions in mm

Bushing Type	Dimensions			
	L ₁	L ₂	L ₃	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
	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
	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

