Panasonic Encoders/EVER/U/V/Y

11 mm Square GS Encoders

Type: EVER/EVEU/EVEV/EVEY

■ Features

● Low Profile: Reflow Type 3.5 mm,

Wave Soldering Type 4 mm

- Minimized shaft wobble type is also available
- The reflow type allows the product to be automatically mounted and reflow-soldered



■ Recommended Applications

Car audio, car navigation, car air conditioners

■ Explanation of Part Numbers

1 2 3 E V E	4	5 6		8 Since & Disco	9	10	11	12
Product Code		Specification		Trims & Dime	nsions	Ou	tput(Puls	es)
	4 th	Туре						
	R	Reflow Type						
	U	Minimized Shaft Wobble Reflow Type						
	V	Wave Soldering Type						
	Υ	Minimized Shaft Wobble Wave Soldering Type						

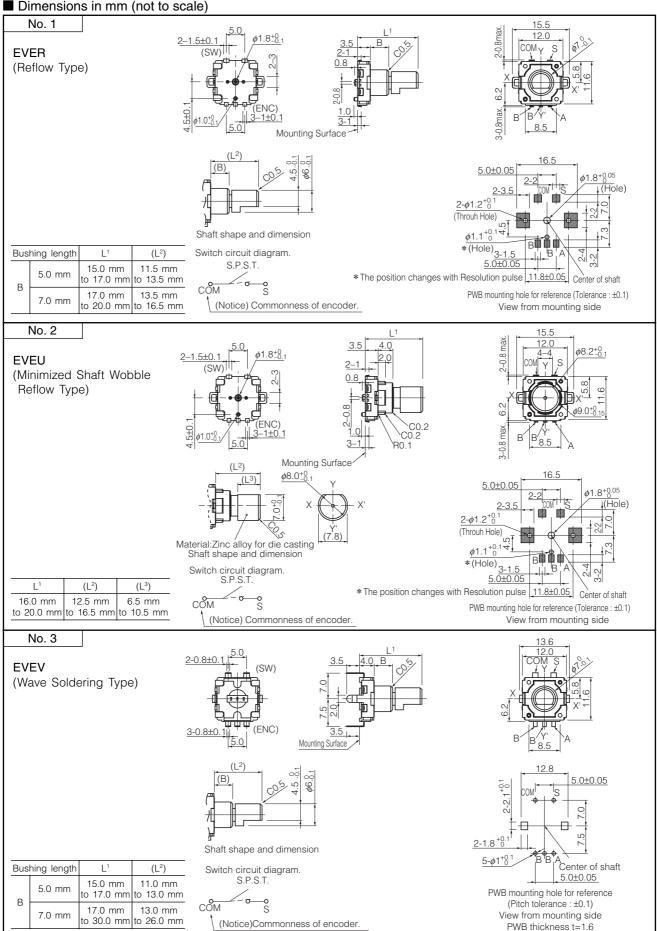
■ Specifications

	1		1	1				
		EVER (Reflow Type)	EVEV (Wave Soldering Type)	EVEU (Minimized Shaft Wobble Reflow Type)	EVEY (Minimized Shaft Wobble Wave Soldering Type)			
Mechanical	Rotation Angle	360 ° (Endless)						
	Shaft Pull/Push Strength	100 N min.						
	Shaft Wobble	0.6×L/30	(mm) max.	0.35×L/30 (mm) max.				
	Rotation Torque	3 mN·m to 20 mN·m						
	Detents	16 points, 24 points, 30 points, 32 points						
	Shaft Length Range	L ₁ =15 to 20 mm	L ₁ =15 to 30 mm	L1=16 to	20 mm			
Electrical	Output Signals	Phase A and B						
	Resolution	8, 12, 15, 16 pulses/360 °						
	Rating	1 mA 10 Vdc (at each bit)						
	Contact Resistance	1 Ω max.						
	Chattering	3 ms max.						
	Insulation Resistance	50 M Ω min. (at 250 Vdc)						
	Dielectric Withstanding Voltage	300 Vac for 1 minute						
	Bouncing	5 ms max.						
Switch Part	Туре	SPST Push-on						
	Rating	20 mA 16 Vdc						
	Contact Resistance	100 m Ω max.						
	Operating Force	0.4 mm travel type: 3 N, 4 N, 6 N						
	Operating Force	1.5 mm travel type : 2.5 N, 4 N , 5 N						
	Travel	0.4 mm, 1.5 mm						
Endurance	Rotation Life (Encoder)	30000 cycles min.						
Lildurance	Operating Life (Switch)	30000 cycles min.						
Minimum Quantity/Packing Unit		50 pcs. (Tray Pack)	100 pcs. (Tray Pack)	50 pcs. (Tray Pack)	100 pcs. (Tray Pack)			
Quantity/Carton		250 pcs. or 300 pcs.	500 pcs.	250 pcs. or 300 pcs.	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.

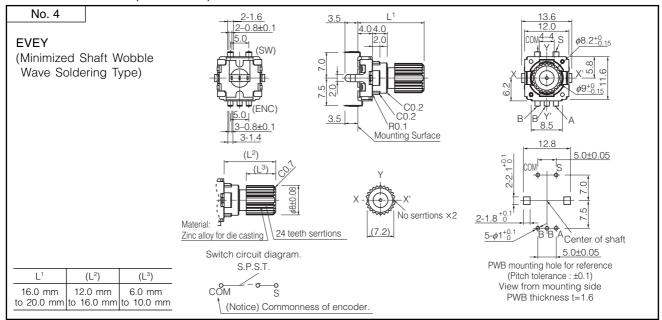
Panasonic Encoders/EVER/U/V/Y

■ Dimensions in mm (not to scale)

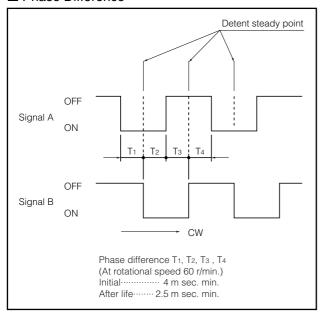


Panasonic Encoders/EVER/U/V/Y

■ Dimensions in mm (not to scale)



■ Phase Difference



■ Test Circuit Diagram

