

10 mm Encoder

EN10 Series



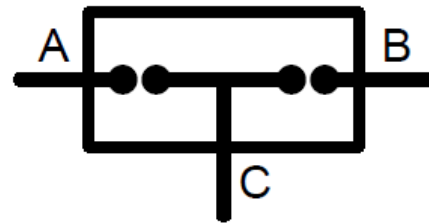
Features:

- Compact design
- 2 bits gray code
- Incremental/contacting type
- Plastic Hollow Shaft
- Vertical and Horizontal mount versions



Description:

10 mm encoder is a small encoder which is a good fit for various small electronic applications such as frequency modulation, volume adjustment, and function switching.



Applications:

- Computer Mouse
- Earphones
- Radios
- Electronic toys

Electrical Characteristics

T_A = 25°C unless otherwise noted

Output	2 Bits Gray Code
Pulses (Per Revolution)	6, 12
Phase Difference	0.08T ± 0.1T
Power Rating	5 Vdc / 10 mA
Insulation Resistance	10MΩ 1 Minute at 50 Vdc Max.
Dielectric Strength	1 Minute at 50 Vac
Chattering	3 ms maximum
Bounce	2 ms maximum

Encoder Characteristics

T_A = 25°C unless otherwise noted

Rotation	360° continuous
Rotational Torque	15-50 gf.cm
Detents per Rotation	12, 24
Rotational Life	100,000 Cycles Min.

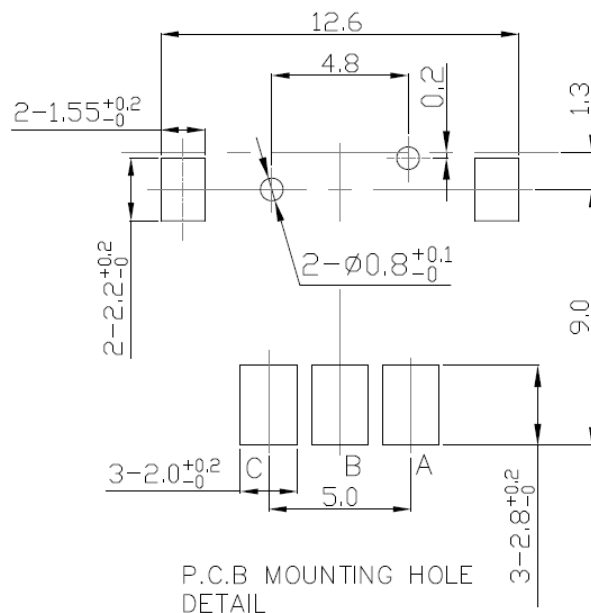
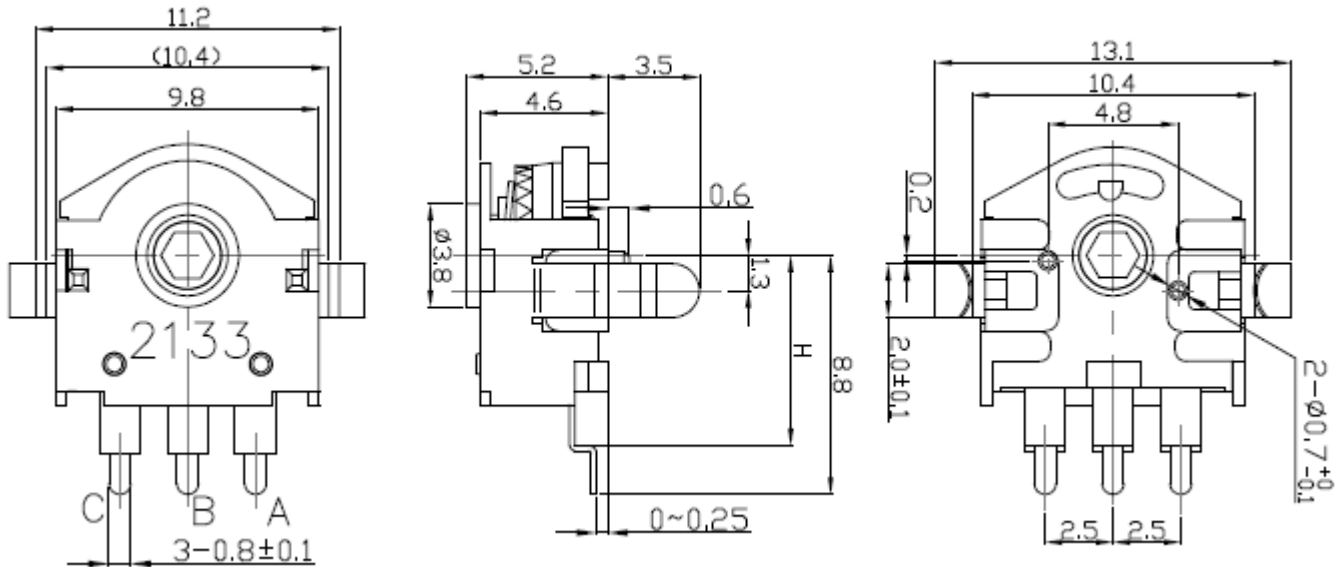
General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

TT Electronics | BI Technologies
Circulo de la Amistad #102 PIMSA IV Mexicali B.C. Mexico C.P 21210
Ph: + 1 (714) 447-2345
www.ttelectronics.com

Outline Drawings

EN10HS - Top Adjust, Surface Mount



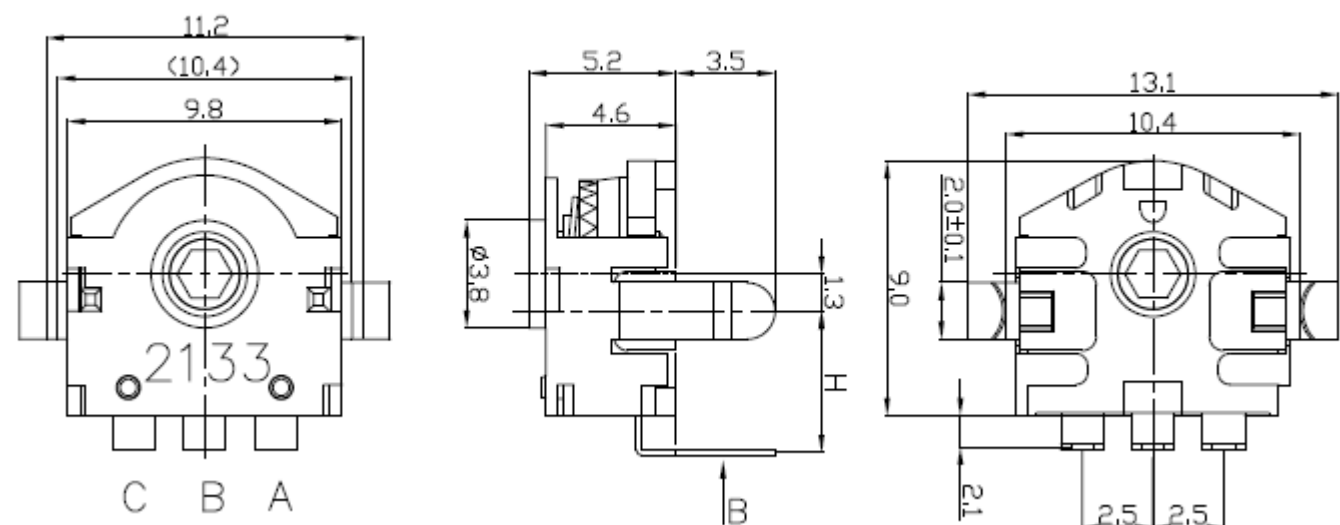
Standoff Height Code

X	1
H	7

Note: Though Surface Mounted in configuration, this part must be hand soldered as it is not rated for reflow soldering process.

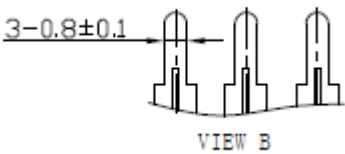
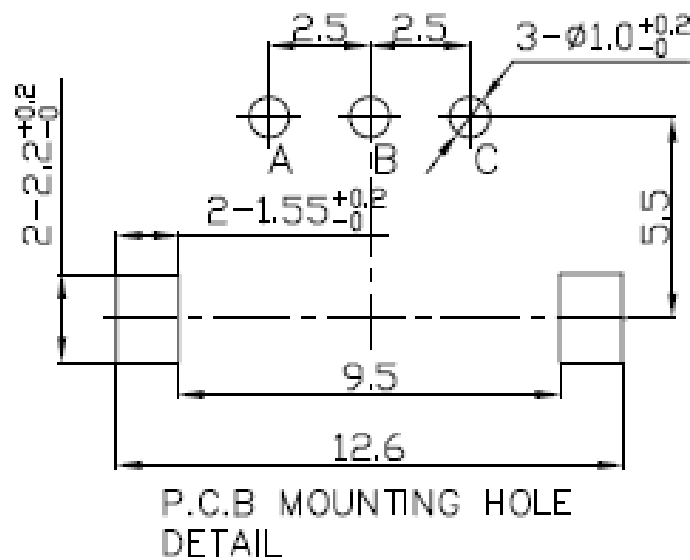
Outline Drawings

EN10HT - Top Adjust, Double Tab Bracket



Standoff Height Code

X	5	6
H	5.5	6.4



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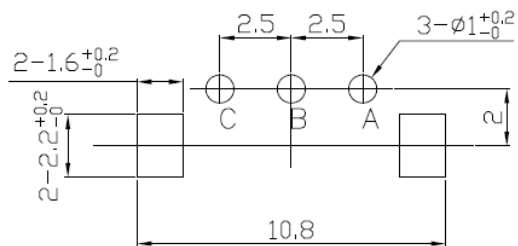
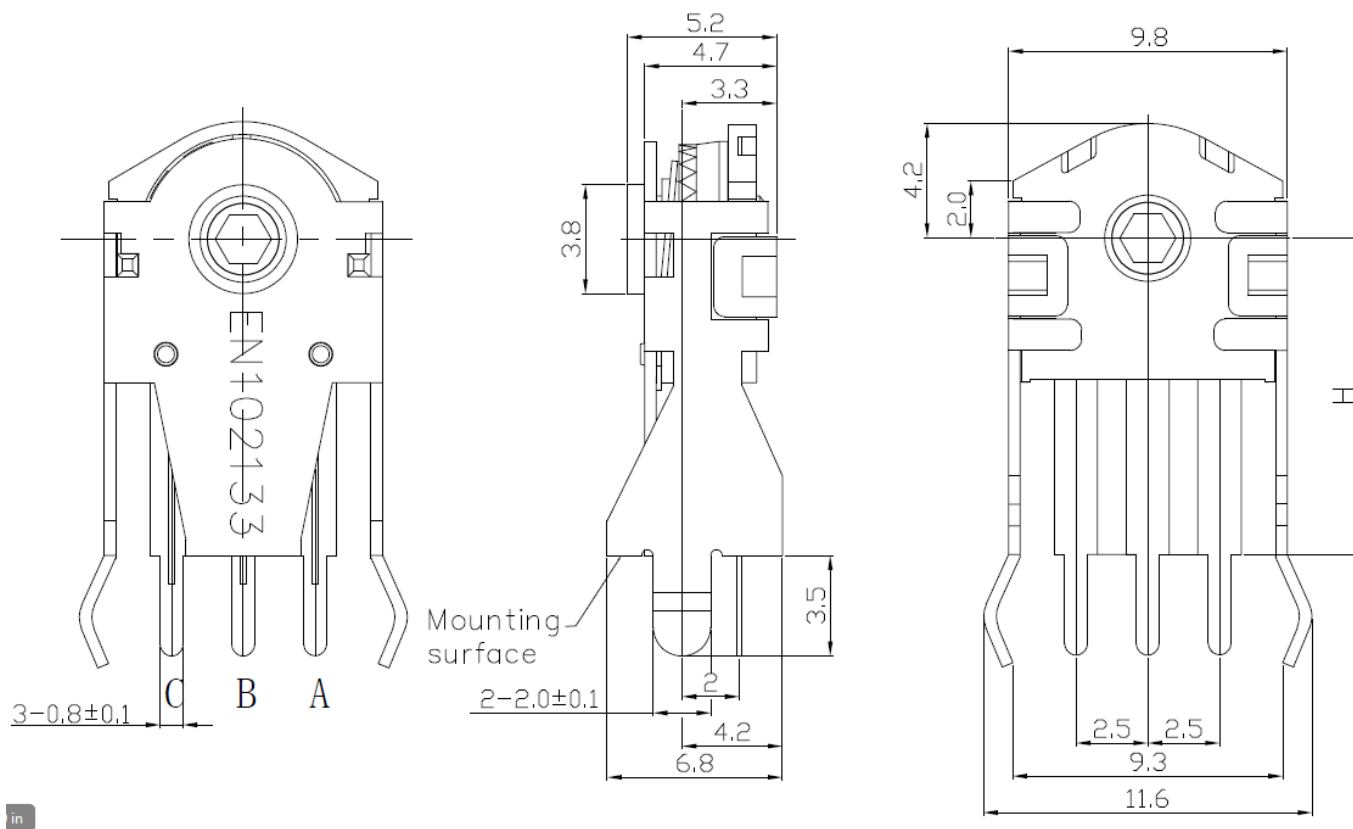
10 mm Encoder

EN10 Series



Outline Drawings

EN10VT - Side Adjust, Double Tab Bracket



P.C.B MOUNTING HOLE
DETAIL

Standoff Height Code

X	1	2	3	4
H	7	9	11	13

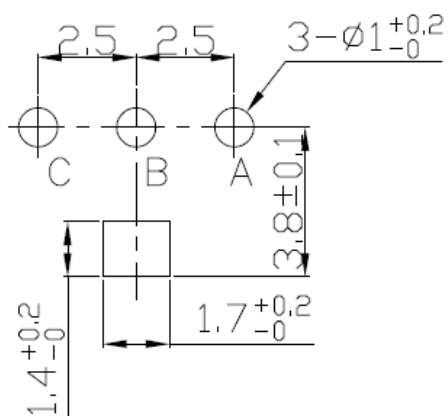
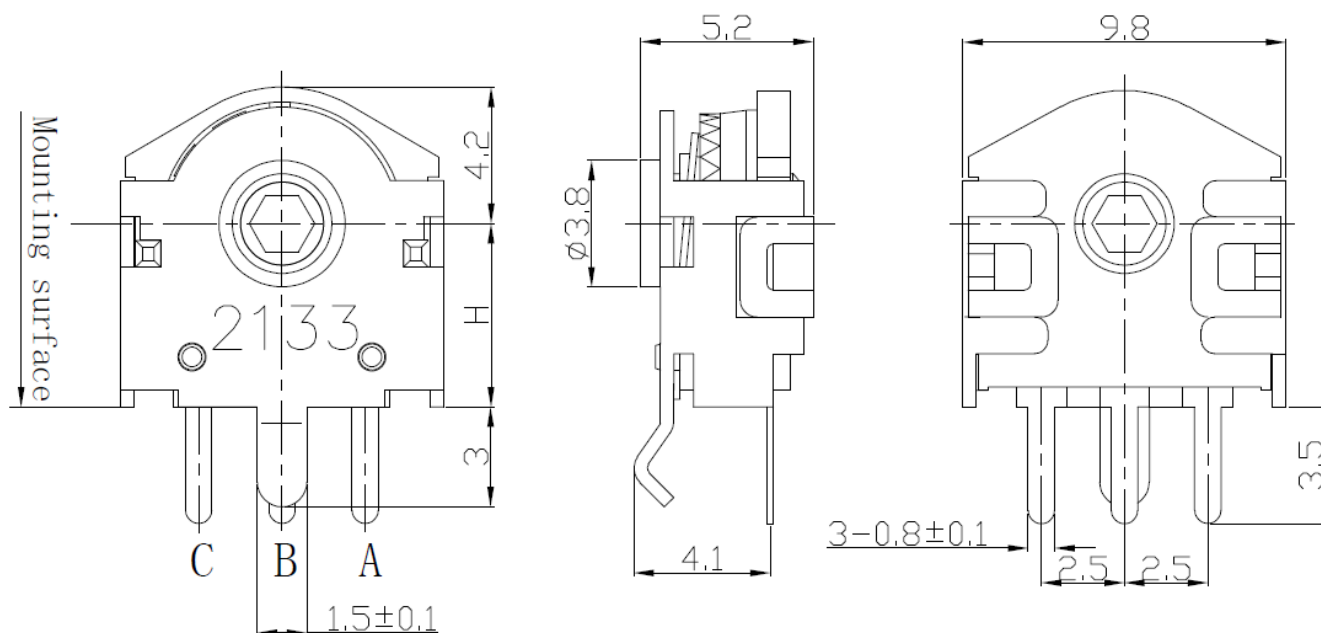
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Outline Drawings

EN10VTS - Side Adjust, Single Tab Bracket



P.C.B MOUNTING HOLE DETAIL

Standoff Height Code

X	5
H	5.5

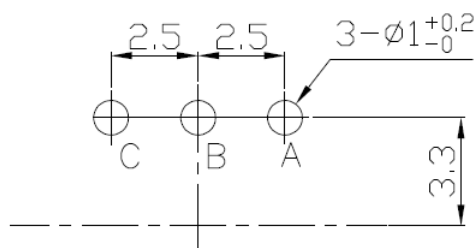
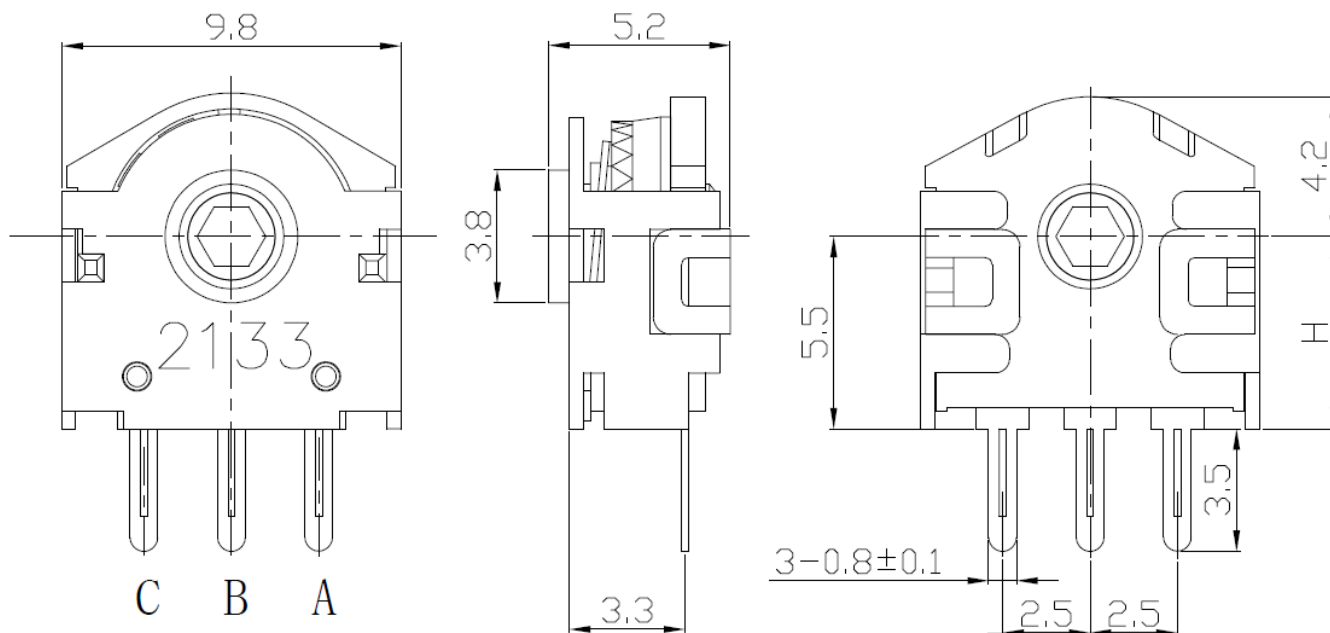
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Outline Drawings

EN10VTN - Side Adjust, No Bracket



P.C.B MOUNTING HOLE DETAIL

Standoff Height Code

X	5	7
H	5.5	6.5

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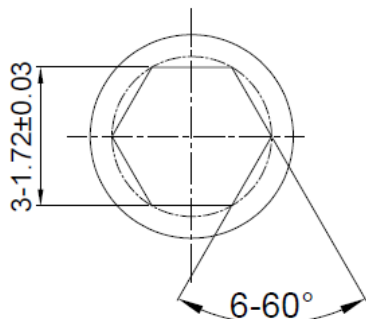
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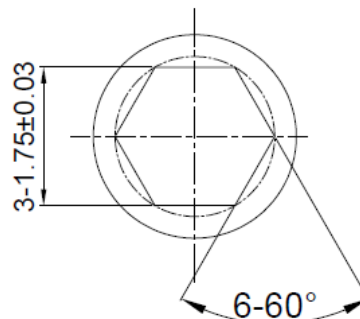


Shaft Detail

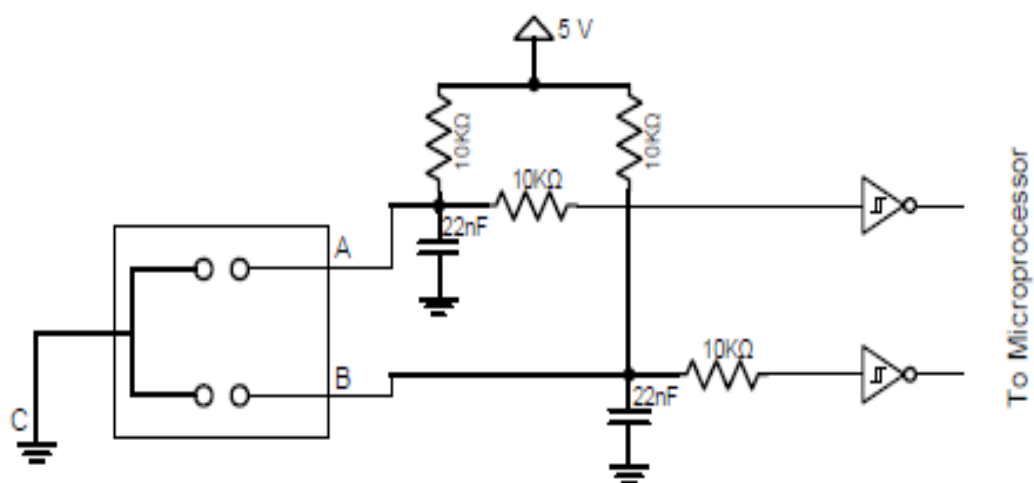
HH2



HH3

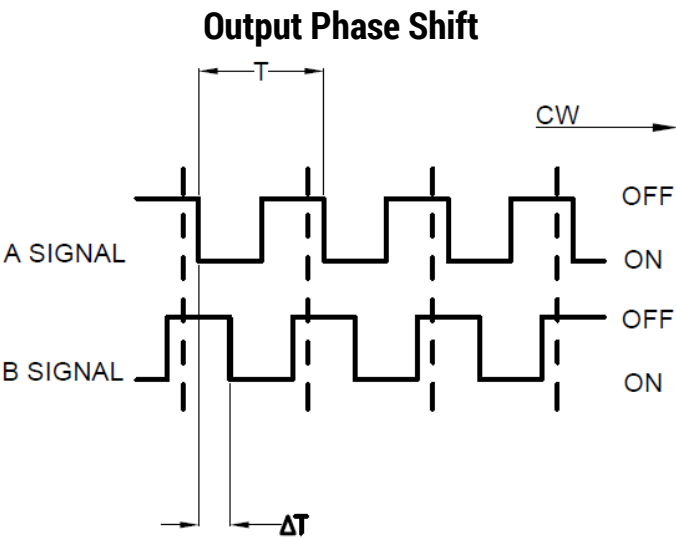


Recommended Filter Schematic



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Packaging

Standard Packaging	Plastic Trays
Included Hardware	None