

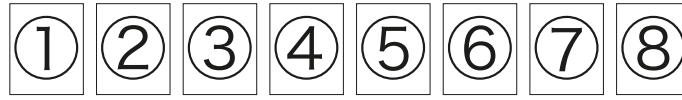
## ■ Product Model Names

According to the external size of an oscillator, two systems are used to name our crystal oscillator models:

### 1. When any external length is shorter than 10.0 mm

(when the length in both longitudinal and lateral directions is less than 10 mm)

#### Configuration of crystal oscillator model names 1



- ① Symbol for NDK: N
- ② Symbols for products: See Table 1.
- ③④ The nominal length (mm) of a product main body in the longitudinal direction is expressed in two effective digits, and the third digit is rounded off.
- ⑤⑥ The nominal length (mm) of a product main body in the lateral direction is expressed in two effective digits, and the third digit is rounded off.

Example: When the package longitudinal length is  $7.0 \pm 0.15$ , the two digits are 70.

When the package lateral length is  $5.0 \pm 0.15$ , the two digits are 50.

- ⑦ Symbols for sealing methods and structures: See Table 2.
- ⑧ Detailed symbols for the order of model name registration: A to Z

### 2. When the external length is longer than 10.0 mm

(when the length in both longitudinal and lateral directions is less than 10 mm)

#### Configuration of crystal oscillator model names 2



- ① Symbol for NDK: N
- ② Symbols for products: See Table 1.
- ③④ The nominal length (mm) of a product main body in the longitudinal direction is expressed in two effective digits, and the third digit is rounded down in principle.
- ⑤⑥ The nominal length (mm) of a product main body in the lateral direction is expressed in two effective digits, and the third digit is rounded down in principle.

Example: When the package longitudinal length is  $11.4 \pm 0.2$ , the two digits are 11.

When the package lateral length is  $9.6 \pm 0.2$ , the two digits are 09.

- ⑦ Symbols for sealing methods and structures: See Table 2.
- ⑧ Detailed symbols for the order of model name registration: A to Z

## ■ Product Model Names

Table 1 Symbols that mean products

Product symbol	Product
H	Oven-Controlled Crystal Oscillator (OCXO)
P	Simple Packaged Crystal Oscillator (SPXO)
T	Temperature-Compensated Crystal Oscillator (TCXO)
V	Voltage-Controlled Crystal Oscillator (VCXO)
W	Frequency Controlled Crystal Oscillator (FCXO)

Table 2 Symbols for sealing methods and structures

Package Classification	Product Sealing Classification	Symbol	Package Material	Package Classification	
				Base	Cover
Common to all products (Surface-mount type including products other than oscillators)	Hermetic sealing	A	Au-Sn solder sealing	Ceramics	Metal
		C	Adhesive sealing	Ceramics	
		D	Direct seam welding	Ceramics	Metal
		E	Electronic beam sealing	Ceramics	Metal
		F	Resin sealing	Ceramics	Resin
		M	Resin molding	Resin	
		P	Adhesive sealing	Resin	
		G	Glass sealing	Ceramics	
		R	Resistance weld sealing	Ceramics	Metal
	S	Seam welding	Ceramics	Metal	
	Non-hermetic sealing	W	–	Board	Metal
		X	–	Board	Non-metal
		Y	–	Mold	Metal
		Z	–	Mold	Non-metal
Special	B	A printed board on which multiple crystal elements were mounted with a nameplate attached to its top surface			
	L	Lead wire terminal Pin terminal			
Oscillator (other than surface-mount type)		L	Lead wire terminal Pin terminal		