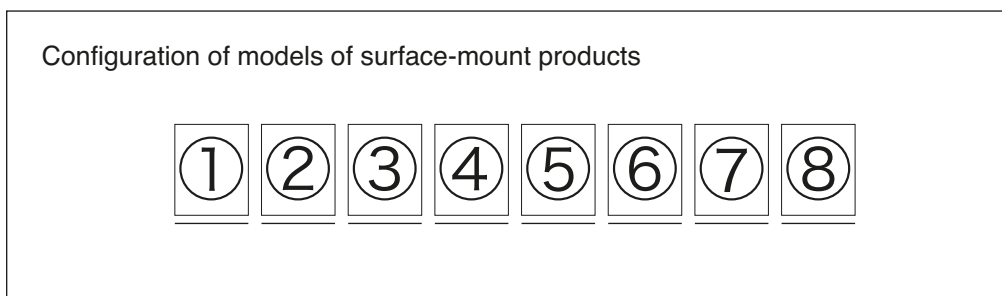


## ■ Models of Surface-mount (SMD) Products

Our system for surface-mount (SMD) product models is as follows:



① Symbol for NDK: N

② Symbols for products: See Table 1.

Table 1 Symbols for products

Product symbol	Product
X	Crystal oscillator
T	Temperature-compensated crystal oscillator (TCXO)
H	Oven-controlled crystal oscillator (OCXO)
V	Voltage-controlled crystal oscillator (VCXO)
P	Simple packaged crystal oscillator (SPXO)
Z	Crystal clock oscillator
M	Monolithic filter
S	SAW device

③④ The nominal length (mm) of a product main body in the longitudinal direction is expressed in two digits. The third digit is rounded off.

⑤⑥ The nominal length (mm) of a product main body in the lateral direction is expressed in two digits. The third digit is rounded off.

Examples: 6.0 mm x 3.5 mm is expressed as 6035.

11.8 mm x 5.5 mm is expressed as 1255.

⑦ Symbols for constituent materials and sealing methods: See Table 2.

Table 2 Symbols for sealing methods

Product sealing category	Symbol	Product sealing method	Package material	
			Base	Cover
Hermetic sealing	C	Adhesive sealing	Ceramics	
	M	Resin molding	Resin	
	P	Adhesive sealing	Resin	
	G	Glass sealing	Ceramics	
	R	Resistance weld sealing	Ceramics	Metal
	S, D	Seam weld sealing	Ceramics	Metal
	A	Au/Sn sealing	Ceramics	Metal
Non-hermetic sealing	W	—	Board	Metal
	X	—	Board	Non-metal
	Y	—	Mold	Metal
	Z	—	Mold	Non-metal
Others	B	A printed board on which multiple crystal elements were mounted with a nameplate attached to its top surface		

⑧ Detailed symbols for the order of model registration: A to Z

When products designed as lead-mount ones have been converted during secondary processing into surface-mount ones, the product model names given before secondary processing are conventionally used to describe them.