

● Part Numbering

Crystal Unit

(Part Number)

| | | | | | | | | |
|-----------|----------|-----------|---------------|----------|----------|----------|-----------|-----------|
| XR | C | GB | 24M000 | F | 0 | L | 00 | R0 |
| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ | ⑨ |

① Product ID

| Product ID | |
|------------|--------------|
| XR | Crystal Unit |

② Lead Style

| Code | Lead Style |
|------------|------------|
| C/T | SMD |

③ Size · Structure

| Code | Size · Structure |
|-----------|----------------------------------|
| ED | 1210 (STD) Metal Sealing |
| FD | 1612 (STD) Metal Sealing |
| MD | 1612 (Low Profile) Metal Sealing |
| GB | 2016 (STD) Resin Sealing |
| PB | 2016 (Low Profile) Resin Sealing |
| HA | 2520 Resin Sealing |
| HH | 2520 Metal Sealing |
| HJ | 2520 Seam Sealing |
| JH | 3225 Metal Sealing |
| JK | 3225 Seam Sealing |
| LH | 5032 Metal Sealing |
| LK | 5032 Seam Sealing |

④ Nominal Center Frequency

Expressed by six-digit alphanumeric. The unit is in hertz (Hz).
Decimal point is expressed by capital letter "M".

⑤ Overtone Order

| Code | Overtone Order |
|----------|------------------------|
| F | Fundamental |
| K | Customized Fundamental |

⑥ Frequency Tolerance

| Code | Frequency Tolerance |
|----------|-----------------------------|
| 0 | ±100ppm |
| 1 | ±10ppm |
| 2 | ±20ppm |
| 3 | ±30ppm |
| 4 | ±45ppm/±40ppm* ¹ |
| 5 | ±50ppm |
| A | ±25ppm/±15ppm* ² |
| Y | Total* ³ ±20ppm |

*1 *2 When ⑤ is "HH" or "JK"

*3 Including Initial Tolerance+Temperature Characteristics+Aging+Reflow

⑦ Frequency Shift by Temperature

| Code | Frequency Shift by Temperature |
|------------|---|
| A | ±100ppm max. (Automotive Grade) |
| G | ±50ppm (Car Multimedia Grade) |
| L | ±50ppm min. |
| M | ±40ppm |
| N | ±25ppm or 30ppm |
| P | ±20ppm |
| H/Q | ±10ppm to ±15ppm/±10ppm to ±19ppm* ¹ |
| Z | ±100ppm (for Industrial) |

*1 When ⑤ is "HH" or "JK"

⑧ Individual Specification

| Code | |
|-----------|---|
| ** | Two-digit alphanumerics express Individual Specification. |

00: Standard specification type.

⑨ Packaging (Quantity and Plastic taping reel diameter are expressed by one-digit number in "**")

| Code | Packaging |
|--------------------|----------------|
| R*/E*/J*/P* | Plastic Taping |