

### Product Search Data Sheet

Note: This datasheet may be out of date. Please download the latest datasheet of PKM22EPH2003 from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-gb/products/productdetail?partno=PKM22EPH2003

# PKM22EPH2003









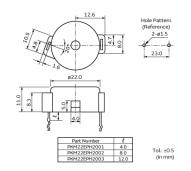
## **Applications**

| Unsuitable   | Please be sure to read and comply with     |  |
|--------------|--------------------------------------------|--|
| Applications | these "Precautions for use."               |  |
|              | Consumer equipment,Industrial              |  |
|              | Equipment                                  |  |
|              | Please refer to Our Website and            |  |
|              | specifications, etc. for information about |  |
| Specific     | the performance, functions, quality,       |  |
| Applications | management, and safety required for        |  |
|              | the above applications, and use            |  |
|              | Products after confirming the              |  |
|              | performance and reliability of the actual  |  |
|              | Product.                                   |  |



## Appearance & Shape







## Packaging Information

| Packaging | Specifications | Standard<br>Packing<br>Quantity |
|-----------|----------------|---------------------------------|
| -         | Bulk           | 270                             |



## **Features**

Externally driven piezoelectric sounders are used in digital watches, electronic calculators, telephones and other equipment. They are driven by a signal (ex.: 2048Hz or 4096Hz) from an LSI and provide melodious sound.

### Features

- 1. Low power consumption
- 2. No noise and high reliability

1 of 3

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2. This datasheet has only typical specifications because there is no space for detailed specifications.

Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.





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# **Specifications**

| 0                                            |                                        |
|----------------------------------------------|----------------------------------------|
| Oscillation circuits                         | Not built-in                           |
| Size                                         | φ22.0×11.0 mm                          |
| Frequency                                    | 2.0kHz                                 |
| Sound Pressure Level                         | 85dB (typ.)                            |
| Sound Pressure Level                         | 75dB (min.)                            |
| Measure Condition of Sound<br>Pressure Level | [±1.5Vo-p,2.0kHz,square wave,<br>10cm] |
| Capacitance                                  | 17nF                                   |
| Capacitance Tolerance                        | ±30%                                   |
| Measurement Condition of Capacitance         | [120Hz]                                |
| Maximum input voltage                        | ±12.5Vo-p max.                         |
| Operating Temperature<br>Range               | -20°C to 70°C                          |
| Storage Temperature Range                    | -30°C to 80°C                          |
| Shape                                        | Lead                                   |
| Lead Shape                                   | Pin type                               |
| Lead length                                  | Lead length:12.0mm                     |
| Drive Type                                   | External Drive                         |
| EIAJ Part Number                             | PS-RP2-C22-20                          |
| Mass                                         | 3050mg                                 |

2 of 3

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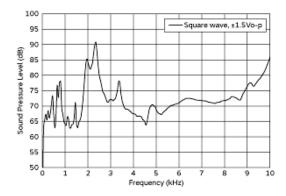
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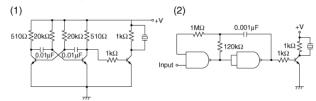
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The following are examples of externally driven circuits.
(1) Unstable multi-vibrator using Tr.

- (2) Circuits using inverters or NAND gates.



Frequency Response

Recommended Circuit

3 of 3

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