



## ◆ C-series ◆

## PIEZOELECTRIC CERAMICS C-series

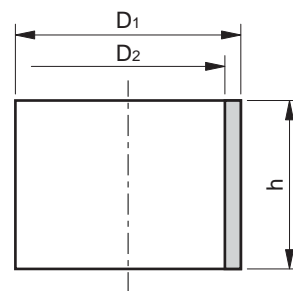
### PIEZOELECTRIC CERAMICS

| Code                     |   | C-12                                   | C-21                                    | C-22                                   | C-24                                      | C-26                                    | C-44                                     |
|--------------------------|---|--|---|--|---|---|--|
| Nominal Frequency        | [kHz]                                       | 12.5                                   | 21                                      | 22                                     | 24  | 26                                      | 44                                       |
| Configuration No-Coating | $(D_1 \times h)$<br>$D_2$ [mm]              | $\phi 74.5 \times 60.0$<br>$\phi 66.5$ | $\phi 45.0 \times 27.7$<br>$\phi 39.9$  | $\phi 41.6 \times 27.6$<br>$\phi 37.0$ | $\phi 39.4 \times 27.6$<br>$\phi 34.8$    | $\phi 36.8 \times 27.5$<br>$\phi 31.6$  | $\phi 22.3 \times 6.4$<br>$\phi 18.3$    |
| Configuration Coating    | $(D_1 \times h)$<br>$D_2$ [mm]              | $\phi 76.0 \times 61.0$<br>$\phi 65.0$ | $\phi 47.0 \times 28.65$<br>$\phi 38.8$ | $\phi 44.3 \times 28.5$<br>$\phi 36.1$ | $\phi 40.65 \times 28.75$<br>$\phi 33.16$ | $\phi 38.1 \times 28.25$<br>$\phi 30.6$ | $\phi 22.75 \times 6.95$<br>$\phi 17.85$ |
| Terminal                 |   | Anti-heat vinyl twisted wire           |   |  |   |   |  |
| Coating                  |   | Nothing, Epoxy Resin                   |   |  |   |   |  |
| Features                 | Resonance Frequency (fr) [kHz]              | 12.5 ± 10%                             | 21 ± 5%                                 | 22 ± 5%                                | 24 ± 5%                                   | 26 ± 5%                                 | 44 ± 5%                                  |
|                          | Oscillating Mode                            | Diameter                               | Diameter                                | Diameter                               | Diameter                                  | Diameter                                | Diameter                                 |
|                          | Electromechanical Coupling Coefficient (Kp) | 25% min.                               | 25% min.                                | 25% min.                               | 25% min.                                  | 25% min.                                | 25% min.                                 |
|                          | Capacitance (C) [pF]                        | 60,000 ± 20%                           | 25,000 ± 15%                            | 24,000 ± 15%                           | 23,870 ± 15%                              | 20,000 ± 15%                            | 3,300 ± 15%                              |
|                          | Mechanical Quality Factor (Qm)              | 50~90                                  | 60~100                                  | 60~90                                  | 50~90                                     | 50~90                                   | 60                                       |
|                          | Insulation Resistance (Ri) DC100V           | 10MΩ min.                              | 10MΩ min                                | 10MΩ min                               | 10MΩ min                                  | 10MΩ min                                | 10MΩ min                                 |

| Code                     |   | C-50                                      | C-100                                | C-150                               | C-220                                 | C-350                               |
|--------------------------|---|---|--------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|
| Nominal Frequency        | [kHz]                                       | 50  | 100                                  | 150                                 | 220                                   | 350                                 |
| Configuration No-Coating | $(D_1 \times h)$<br>$D_2$ [mm]              | $\phi 19.5 \times 15.5$<br>$\phi 14.0$    | $\phi 10.0 \times 7.0$<br>$\phi 8.0$ | $\phi 7.5 \times 5.5$<br>$\phi 4.5$ | $\phi 4.55 \times 3.5$<br>$\phi 3.55$ | $\phi 3.0 \times 2.0$<br>$\phi 2.0$ |
| Configuration Coating    | $(D_1 \times h)$<br>$D_2$ [mm]              | $\phi 19.95 \times 16.05$<br>$\phi 13.55$ | -                                    | -                                   | -                                     | -                                   |
| Terminal                 |   | Anti-heat vinyl twisted wire              |                                      |                                     |                                       | Ag or Ni                            |
| Coating                  |   | Nothing, Epoxy Resin                      | Nothing                              | Nothing                             | Nothing                               | Nothing                             |
| Features                 | Resonance Frequency (fr) [kHz]              | 50 ± 5%                                   | 100 ± 5%                             | 150 ± 5%                            | 220 ± 5%                              | 350 ± 5%                            |
|                          | Oscillating Mode                            | Diameter                                  | Diameter                             | Diameter                            | Diameter                              | Diameter                            |
|                          | Electromechanical Coupling Coefficient (Kp) | 25% min.                                  | 30% min.                             | 25% min.                            | 30% min.                              | 30% min.                            |
|                          | Capacitance (C) [pF]                        | 5,200 ± 15%                               | 3,200 ± 15%                          | 1,500 ± 15%                         | 1,300 ± 15%                           | 550 ± 15%                           |
|                          | Mechanical Quality Factor (Qm)              | 80  | 30~100                               | 100                                 | 40                                    | 40                                  |
|                          | Insulation Resistance (Ri) DC100V           | 10MΩ min.                                 | 10MΩ min.                            | 10MΩ min.                           | 10MΩ min.                             | 10MΩ min.                           |



[ Dimension ]



⚠ Specifications of products are subject to change without notice.

e-c\_series-06



株式会社 **MKT TAISEI Co., Ltd.**

<< Head Office >> 3-10-8, Nohagi 1st Bldg, Minami-Ikebukuro, Toshima-ku, Tokyo, 171-0022, Japan.

PHONE : 81-3-3982-0029 FAX : 81-3-3986-1537 E-mail : info@mkt-taisei.com

<< Kansai Branch >> 3-18-9, Nishi-Nakajima, Yodogawa-ku, Osaka-City, 532-0011, Japan.

PHONE : 81-6-6390-7264 FAX : 81-6-6390-6945 E-mail : mkt-k@wonder.ocn.ne.jp

<http://www.mkt-taisei.co.jp/>