

5.0×3.2mm



Pb Free

RoHS Comforming

Features

- Reference frequency for telecommunication systems
- Reflow compatible
- Using Ceramic Package resulting in high reliability
- Small, low profile and market standard dimensions

Applications

- Cellular phone, IC Card, GPS
- Remote keyless entry

How to Order

KSX-35-13000K C A-Q C 0 R
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Type
- ② Nominal Frequency

| Code | Freq.(kHz) | Code | Freq.(kHz) |
|--------|------------|--------|------------|
| 13000K | 13000.000 | 19440K | 19440.000 |
| 13560K | 13560.000 | 19680K | 19680.000 |
| 14400K | 14400.000 | 19800K | 19800.000 |
| 16800K | 16800.000 | 26000K | 26000.000 |
| 19200K | 19200.000 | | |

* Please inquire about frequencies other than the above.

- ③ Load Capacitance

| | |
|---|------|
| C | 12pF |
|---|------|

- ④ Frequency Stability

| | |
|---|--------|
| A | ±10ppm |
|---|--------|

- ⑤ Operating Temperature

| | |
|---|----------------|
| Q | -30°C to +85°C |
|---|----------------|

- ⑥ Frequency Temperature Stability

| | |
|---|--------|
| C | ±15ppm |
|---|--------|

- ⑦ Frequency Offset

| | |
|---|---------------|
| 0 | 0Hz(Standard) |
|---|---------------|

- ⑧ Packaging

| | |
|---|--------|
| R | Taping |
|---|--------|

Specifications

| Items | Symbol | Specification | Units | Remarks |
|---------------------------------|------------------|---------------|-------|-------------------------------------|
| Frequency Range | Fo | 12600~27820 | kHz | |
| Overtone Order | — | Fundamental | — | |
| Frequency Tolerance | ΔF/F | ±10 | ppm | @ 25°C |
| Frequency Temperature Character | ΔF/T | ±15 | ppm | ref@ 25°C Over Operating Temp Range |
| Motional Series Resistance | Cl | Table 1 | ohm | |
| Level of Drive | — | Table 2 | μW | |
| Load Capacitance | CL | 12 | pF | |
| Operating Temp. Range | T _{OPR} | -30~+85 | °C | |
| Storage Temp. Range | T _{STG} | -40~+85 | °C | |

* Taping packing : one unit 1,000pcs & 3,000pcs
* Please inquire about specifications other than the above.

Table1 Motional Series Resistances

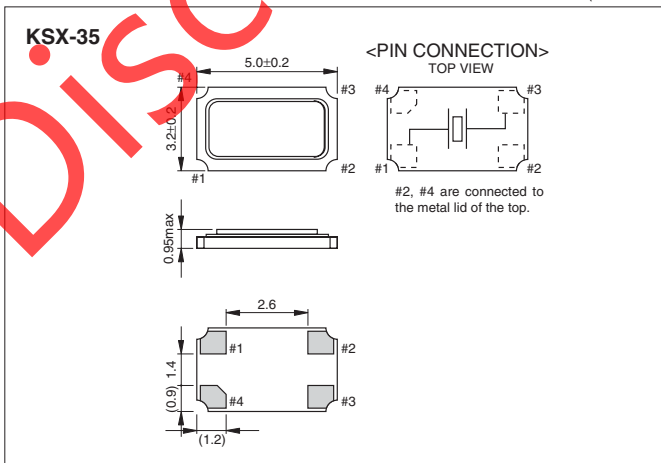
| Frequency Range | Motional Series Resistance | Units |
|-----------------|----------------------------|-------|
| 12600~18999kHz | 60Max | ohm |
| 11000~25999kHz | 50Max | |
| 26000~27820kHz | 40Max | |

Table2 Level of Drive

| Frequency Range | Level of Drive | Units |
|-----------------|----------------|-------|
| 12600~27820kHz | 10(Max 100) | μW |

Dimensions

(Unit : mm)



Recommended Land Pattern

(Unit : mm)

