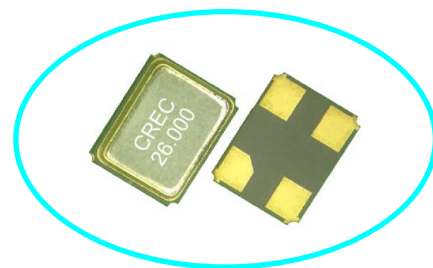


## XMD Type

### SMD3225 X'TAL Series

#### Feature

- ◆ Frequency Range: 8~125MHz
- ◆ Typical 3.2 x 2.5 x 0.6 mm ultra thin ceramic package
- ◆ 8mm width carrier Tape & Reel package for automatic assembly.
- ◆ Packing : Tape & Reel, 3000pcs / Reel.



#### Typical Application

- ◆ Automotive
- ◆ Bluetooth, Mobile Phone, GPS
- ◆ Wireless LAN, LTE.
- ◆ Set-top Box, DECT / WDCT, TV.

#### Electrical Specifications

| Parameter                      | Specification |         |     | Unit     | Remark     |
|--------------------------------|---------------|---------|-----|----------|------------|
|                                | Min           | Typical | Max |          |            |
| Frequency Range (F0)           | 8~125         |         |     | MHz      | -          |
| Storage Temperature Range (Ts) | -55           | -       | 125 | °C       | -          |
| Level of Drive (DL)            | -             | 100     | 200 | uW       | -          |
| Load Capacitance (CL)          | 6 pF ~ ∞      |         |     | pF       | Assignable |
| Insulation Resistance          | 500           | -       | -   | Mohm     | at DC 100V |
| Aging                          | -3            | -       | 3   | ppm/Year | First Year |

#### Frequency Stability Vs Temperature Range

| Temp Range(°C)   | ppm |     |     |     |     |     |      |
|------------------|-----|-----|-----|-----|-----|-----|------|
|                  | ±5  | ±10 | ±15 | ±20 | ±30 | ±50 | ±100 |
| -10~60           | △   | √   | √   | √   | √   | √   | √    |
| -20~70           | X   | √   | √   | √   | √   | √   | √    |
| -40~85(F>=16MHz) | X   | △   | √   | √   | √   | √   | √    |
| -40~85(F<16MHz)  | X   | X   | √   | √   | √   | √   | √    |
| -40~105          | X   | X   | X   | △   | √   | √   | √    |
| -40~125          | X   | X   | X   | X   | △   | √   | √    |

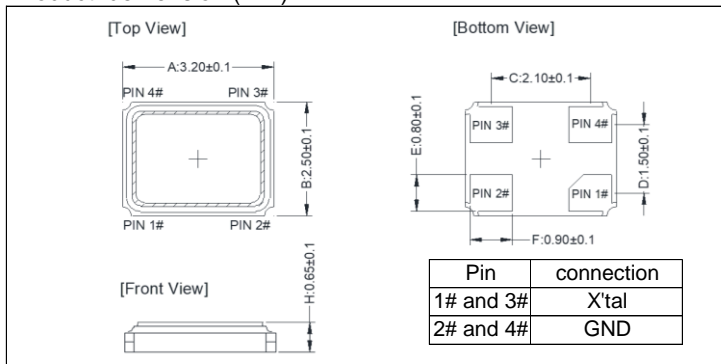
Note: √ :Available, △:Conditional, X:Not available

#### ESR (Equivalent Series Resistance)

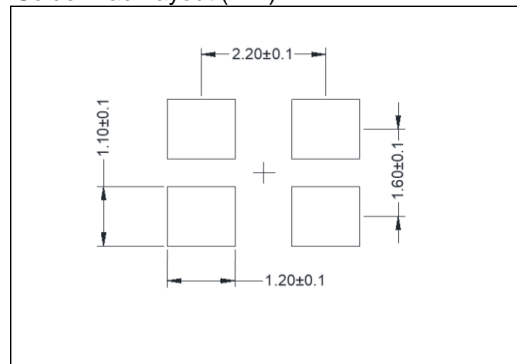
| Frequency Range                  | Mode                     | ESR (Max) | Unit |
|----------------------------------|--------------------------|-----------|------|
| 7.9MHz < F <sub>0</sub> ≤ 10MHz  | Fundamental              | 200       | ohm  |
| 10MHz ≤ F <sub>0</sub> < 12MHz   | Fundamental              | 120       | ohm  |
| 12MHz ≤ F <sub>0</sub> < 16MHz   | Fundamental              | 80        | ohm  |
| 16MHz ≤ F <sub>0</sub> < 20MHz   | Fundamental              | 70        | ohm  |
| 20MHz ≤ F <sub>0</sub> < 24MHz   | Fundamental              | 60        | ohm  |
| 24MHz ≤ F <sub>0</sub> < 50MHz   | Fundamental              | 40        | ohm  |
| 50MHz ≤ F <sub>0</sub> ≤ 62.4MHz | Fundamental              | 30        | ohm  |
| 60MHz ≤ F <sub>0</sub> < 100MHz  | 3 <sup>rd</sup> Overtone | 60        | ohm  |
| 100MHz ≤ F <sub>0</sub> < 125MHz | 3 <sup>rd</sup> Overtone | 50        | ohm  |

#### Dimension

Product demension (mm)



Solder Pad Layout (mm)



Note: not all combination of options are available. Other specifications may be available upon request.

Specifications subject to change without notice.

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