



3.2mm x 2.5mm SMD Crystal

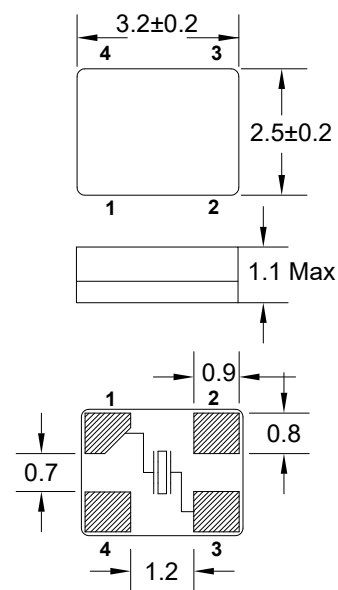
C3BQ (former FQ3225B) DATASHEET

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- Tolerances down to 20 PPM
- Stabilities down to 20 PPM

• STANDARD SPECIFICATIONS

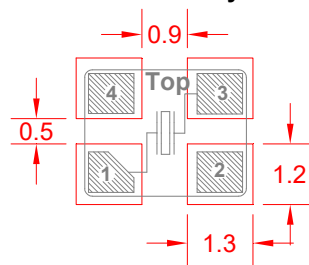
| PARAMETERS | MAX (unless otherwise noted) |
|--|------------------------------|
| Frequency Range (Fo) | 12.000 ~ 50.000 MHz |
| Frequency Tolerance @ 25°C | (See options on page 2) |
| Frequency Stability, ref @ 25°C Over Operating Temp Range | (See options below) |
| Temperature Range | |
| Operating (TOPR) | (See options on page 2) |
| Storage (TSTG) | -55°C ~ +125°C |
| Shunt Capacitance (Co) | 3 pF |
| Load Capacitance (CL) | (See options on page 2) |
| Drive Level | 0.1 mW |
| Aging per year | ±5 PPM |
| Maximum Soldering Temp / Time | 260°C / 10 Seconds |
| Moisture Sensitivity Level (MSL) | 1 |
| Termination Finish | Ag |
| Seal Method | Resin Sealed |
| Lead (Pb) Free | YES |
| RoHS / REACH Compliant | YES |



Bottom View

Cut Corner Pad may be either pad #1 or pad #3

**Recommended
Solder Pad Layout**



• Available Operating Temperatures and Stabilities*

| Stability Temperature | ±20 PPM | ±25 PPM | ±30 PPM | ±50 PPM |
|-----------------------|---------|---------|---------|---------|
| -10 ~+70°C | O | O | O | O |
| -20 ~+70°C | O | O | O | O |
| -40 ~+85°C | Δ | O | O | O |

Key: O=Available, X=Not Available, Δ=Consult Fox Technical Support

*Does not imply a stocked part.



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Title / Description: C3BQ STANDARD SPECIFICATIONS

Drawing Number: 100658

Size: A

Part Number:

Cage: 61429

Draftsperson: MAJ

Approved: BEC

Revision Date: 04/15/2019



3.2mm x 2.5mm SMD Crystal

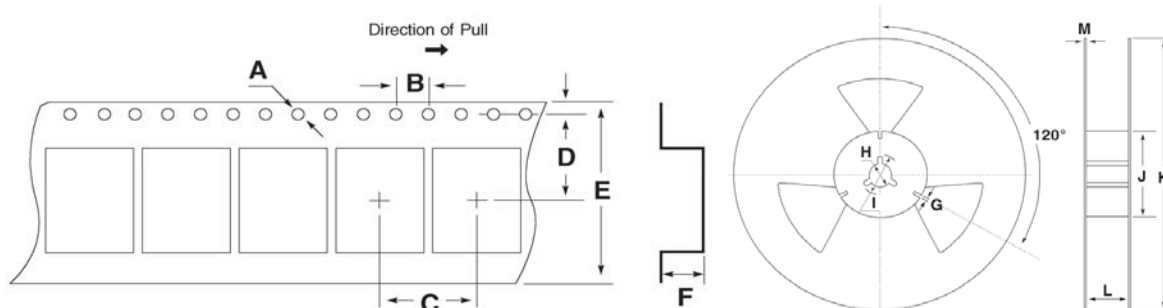
C3BQ

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DATASHEET

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| • TAPE SPECIFICATIONS (millimeters) | | | | | | | • REEL SPECIFICATIONS (millimeters) | | | | | | |
|-------------------------------------|-----|-----|-----|-----|------|--|-------------------------------------|-----|-----|-----|------|-----|-----|
| A | B | C | D | E | F | STD Reel QTY | G | H | I | J | K | L | M |
| Ø1.5 | 4.0 | 4.0 | 3.5 | 8.0 | 1.25 | T3 =3,000 default T2 =2,000 T1 = 1,000 | 2.0 | Ø13 | Ø21 | Ø62 | Ø178 | 9.0 | 1.2 |



Available Options & Part Identification for SMD Crystal C3BQ¹

F C3BQ B B M E 25.0

| F | C3BQ | B | B | M | E | 25.0 |
|------------|---------------------|--|--|---|---|------------------------|
| FOX | Model Number | Tolerance B=50ppm C=30ppm D=25ppm E=20ppm | Stability B=50ppm C=30ppm D=25ppm E=20ppm | Load Capacitance² V=7pF D=8pF E=10pF G=12pF K=16pF M=20pF | Operating Temperature E=-10 to +70C F=-20 to +70C M=-40 to +85C | Frequency (MHz) |

¹ Not all frequency, tolerance, stability, load, and operating temperature combinations may be available.

² Listed load capacitances represent the most commonly used. Other load capacitances are available.

Contact Fox Technical Support for assistance



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|--|--|----------------------|----------------------------------|
| | Title / Description: C3BQ STANDARD SPECIFICATIONS | | |
| | Drawing Number: 100658 | | Size: A |
| | Part Number: | | Cage: 61429 |
| | Draftsperson: MAJ | Approved: BEC | Revision Date: 04/15/2019 |

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