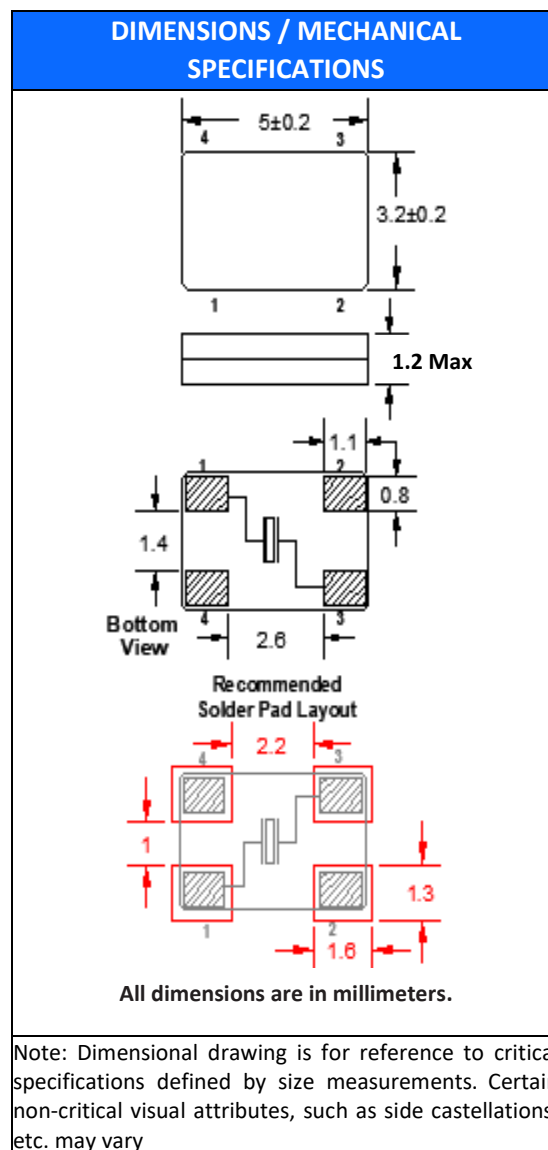


## Features

- Tolerances down to  $\pm 20$  PPM
- Stabilities down to  $\pm 10$  PPM

| STANDARD SPECIFICATIONS       |                              |
|-------------------------------|------------------------------|
| PARAMETERS                    | MAX (Unless otherwise noted) |
| Frequency Range               | 8.000 ~ 48.000 MHz           |
| Frequency Tolerance @ 25°C    | (See options below)          |
| Frequency Stability, ref 25°C | (See options below)          |
| Temperature Range             |                              |
| Operating ( $T_{OPR}$ )       | (See options below)          |
| Storage ( $T_{STG}$ )         | -40°C ~ +85°C                |
| Shunt Capacitance ( $C_o$ )   | 5 pF                         |
| Load Capacitance ( $C_L$ )    | (See options below)          |
| Drive Level                   | 0.5mW                        |
| Aging per year (@ 25°C)       | $\pm 5$ PPM                  |
| Termination Finish            | Ag                           |
| Seal Method                   | Resin                        |
| Lead (Pb) Free                | Yes                          |
| RoHS Compliant                | Yes                          |

| Frequency Range (MHz) | Operating Mode | Max ESR $\Omega$ |
|-----------------------|----------------|------------------|
| 8.000000 ~ 11.999999  | Fundamental    | 100              |
| 12.000000 ~ 16.000    | Fundamental    | 80               |
| 16.000001 ~ 48.000    | Fundamental    | 50               |



| AVAILABLE OPERATING TEMPERATURES AND STABILITIES*                                                        |              |              |              |              |              |              |
|----------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Operating Temperature                                                                                    | $\pm 10$ PPM | $\pm 15$ PPM | $\pm 20$ PPM | $\pm 25$ PPM | $\pm 30$ PPM | $\pm 50$ PPM |
| 0 ~ +70°C                                                                                                | O            | O            | O            | O            | O            | O            |
| -20 ~ +70°C                                                                                              | O            | O            | O            | O            | O            | O            |
| -40 ~ +85°C                                                                                              | X            | X            | X            | X            | O            | O            |
| Key: O = Available, X = Not Available, Δ = Consult Fox Technical Support *Does not imply a stocked part. |              |              |              |              |              |              |

# FC5BQ

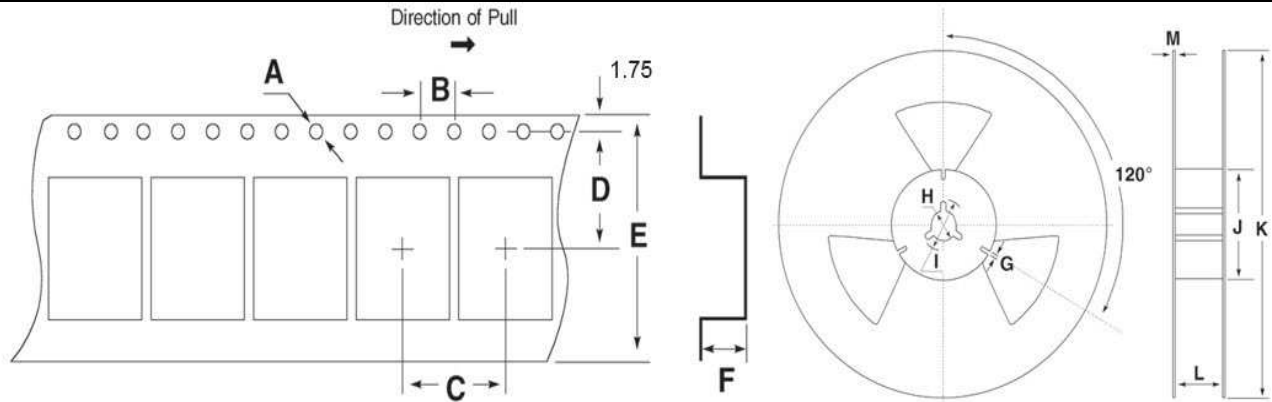
(Former FQ5032B)

5.0mm x 3.2mm

SMD Crystal



| TAPE SPECIFICATIONS (mm) |     |     |     |      |     |             | REEL SPECIFICATIONS (mm) |     |     |     |      |      |     |
|--------------------------|-----|-----|-----|------|-----|-------------|--------------------------|-----|-----|-----|------|------|-----|
| A                        | B   | C   | D   | E    | F   | REEL QTY    | G                        | H   | I   | J   | K    | L    | M   |
| ø1.55                    | 4.0 | 8.0 | 5.5 | 12.0 | 1.4 | -T1 = 1,000 | 2.0                      | ø13 | ø21 | ø62 | ø180 | 13.5 | 2.0 |



## Available Options & Part Identification for SMD Crystal C5BQ<sup>1</sup>

Sample PN: **FC5BQCCMC25.0-T1**

| F          | C5BQ                | C                                                               | C                                                                                             | M                                                                                                 | C                                                             | 25.0                   | -T1                            |
|------------|---------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------|--------------------------------|
| <u>Fox</u> | <u>Model Number</u> | <u>Tolerance</u>                                                | <u>Stability</u>                                                                              | <u>Load Capacitance</u> <sup>2</sup>                                                              | <u>Operating Temperature</u>                                  | <u>Frequency (MHz)</u> | <u>Values Added Options</u>    |
|            |                     | B = ±50 PPM<br><b>C = ±30 PPM</b><br>D = ±25 PPM<br>E = ±20 PPM | B = ±50 PPM<br><b>C = ±30 PPM</b><br>D = ±25 PPM<br>E = ±20 PPM<br>F = ±15 PPM<br>H = ±10 PPM | V = 7pF<br>D = 8pF<br>E = 10pF<br>G = 12pF<br>J = 15pF<br>K = 16pF<br>L = 18pF<br><b>M = 20pF</b> | <b>C = 0 to +70°C</b><br>F = -20 to +70°C<br>M = -40 to +85°C |                        | Blank = Bulk<br>T1 = 1,000 pcs |

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

<sup>2</sup> Listed load capacitances represent the most commonly used. Other load capacitances are available. Contact us for assistance

## Reliability Test Conditions

Please contact Abracon Quality Assurance department