Ceramic SMD Crystal



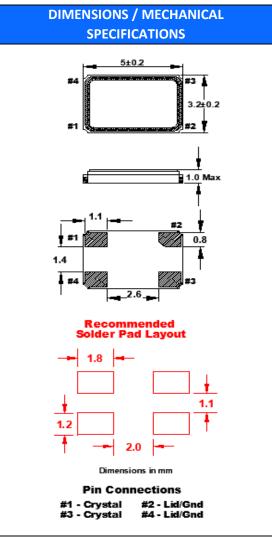
(Former FX532B)

Features

- Tolerances down to ±10 ppm
- Stabilities down to ±5 ppm
- Temperature Ranges as wide as -55°C to +125°C

| STANDARD SPECIFICATIONS | | | | | | |
|---|---------------------------------------|--|--|--|--|--|
| PARAMETERS | MAX (Unless otherwise noted) | | | | | |
| Frequency Range | 8.000 ~ 200.000 MHz | | | | | |
| Frequency Tolerance @ 25°C | (See options below) | | | | | |
| Frequency Stability, ref 25°C Over Operating Temp Range | (See options below) | | | | | |
| Temperature Range Operating (T _{OPR}) Storage (T _{STG}) | (See options below) -55°C ~ +125°C | | | | | |
| Shunt Capacitance (Co) | 5.0 pF | | | | | |
| Load Capacitance (C _L) | (See options below) | | | | | |
| Drive Level | 100μW | | | | | |
| Aging per year (@ 25°C) | ±5 PPM | | | | | |
| Maximum Soldering Temp / Time | 260°C / 10 Seconds x 2 | | | | | |
| Moisture Sensitivity Level (MSL) per J-STD-033 | 1 | | | | | |
| Termination Finish | Au over Ni | | | | | |
| Seal Method | Seam | | | | | |
| Lead (Pb) Free | Yes | | | | | |
| RoHS Compliant | Yes | | | | | |

| Frequency Range (MHz) | Operating Mode | $\mathbf{Max}\ \mathbf{ESR}\ \Omega$ |
|-----------------------|----------------|--------------------------------------|
| 8.000 ~ 9.749999 | Fundamental | 70 |
| 9.750 ~ 9.999999 | Fundamental | 60 |
| 10.000 ~ 11.999999 | Fundamental | 45 |
| 12.000 ~ 15.999999 | Fundamental | 35 |
| 16.000 ~ 19.999999 | Fundamental | 30 |
| 20.000 ~ 49.999999 | Fundamental | 25 |
| 50.000 ~ 200.000 | Fundamental | 20 |
| 40.000 ~ 79.999999 | 3rd OT | 100 |
| 80.000 ~ 99.999999 | 3rd OT | 80 |
| 100.000 ~ 133.000 | 3rd OT | 60 |



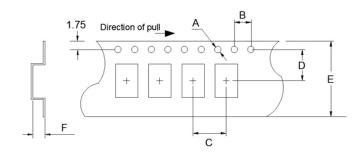
Note: Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellations, etc. may vary.

(Former FX532B)

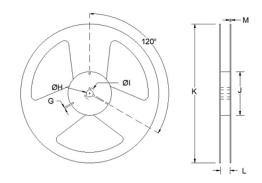


| AVAILABLE OPERATING TEMPERATURES AND STABILITIES* | | | | | | | | |
|---|--------|---------|---------|---------|---------|---------|---------|----------|
| Operating Temperature | ±5 PPM | ±10 PPM | ±15 PPM | ±20 PPM | ±25 PPM | ±30 PPM | ±50 PPM | ±100 PPM |
| 0 ~ 70°C | Х | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| -10 ~+60°C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| -10 ~+70°C | Χ | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| -20 ~+70°C | Χ | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| -30 ~+85°C | Χ | Х | 0 | 0 | 0 | 0 | 0 | N/A |
| -40 ~+85°C | Χ | Х | 0 | 0 | 0 | 0 | 0 | N/A |
| -40 ~+105°C | Χ | Х | Х | Х | Х | Х | 0 | 0 |
| -40 ~+125°C | Χ | Х | Х | Х | Х | Х | 0 | 0 |
| -55 ~+125°C | Х | Х | Х | Х | Х | Х | 0 | 0 |
| Key: O = Available, X = Not Available, N/A Not Applicable *Does not imply a stocked part. | | | | | | | | |

| TAPE SPECIFICATIONS (mm) | | | | | | | |
|--------------------------|-----|-----|-----|------|----------|-------------|--|
| A B C D E F REEL | | | | | REEL QTY | | |
| ø1.55 | 4.0 | 8.0 | 5.5 | 12.0 | 1.4 | -T1 = 1,000 | |



| REEL SPECIFICATIONS (mm) | | | | | | |
|--------------------------|-----|-----|-----|------|------|-----|
| G H I | | | J | К | L | M |
| 2.0 | Ø13 | Ø21 | Ø80 | Ø178 | 13.5 | 2.0 |





(Former FX532B)

| Available Options & Part Identification for Crystal Model C5BS ¹ Sample PN: <u>FC5BSCCEM25.0-T1</u> | | | | | | | | | |
|--|-------------------------------|---|---|---|--|--------------------|--|--|--|
| F | C5BS | С | С | E | M | 25.0 | -T1 | | |
| Fox | <u>Model</u> <u>Number</u> | Tolerance B = ±50ppm C = ±30ppm D = ±25ppm E = ±20ppm F = ±15ppm H = ±10ppm | Stability A = ±100 ppm B = ±50 ppm C = ±30 ppm D = ±25 ppm E = ±20 ppm F = ±15 ppm H = ±10 ppm L = ±5 ppm | Load Capacitance ² E = 10pF G = 12pF J = 15pF K = 16pF L = 18pF M = 20pF | Operating Temperature C = 0 to 70°C D = -10 to +60°C E = -10 to +70°C F = -20 to +70°C K = -30 to +85°C M = -40 to +85°C P = -40 to +105°C I = -40 to +125°C T = -55 to +125°C | Frequency (MHz) | Values Added Options Blank = Bulk T1 = 1,000 pcs | | |

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

Reliability Test Conditions

Please contact Abracon Quality Assurance department

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

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