



**THE DATASHEET OF
FC4SDCBMF6.0-T1**

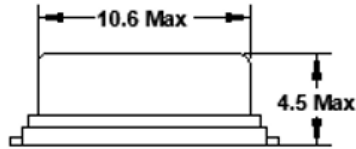
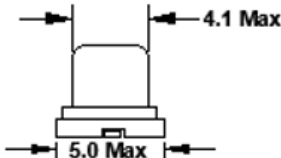
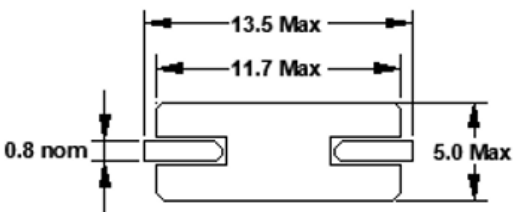
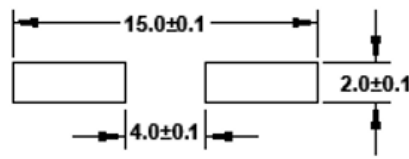


Features

- Tolerances down to ± 10 ppm
- Stabilities down to ± 5 ppm
- Operating Temperature Range to $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$

| STANDARD SPECIFICATIONS | |
|--|---|
| PARAMETERS | MAX (Unless otherwise noted) |
| Frequency Range | 3.200 ~ 80.000 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}) | (See options below) |
| Storage (T_{STG}) | $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ |
| Shunt Capacitance (C_0) | 7 pF |
| Load Capacitance (C_L) | (See options below) |
| Drive Level | 0.5mW (100 μ W Typical) |
| Aging per year (@ 25°C) | ± 3 PPM |
| Maximum Soldering Temp / Time | 260°C / 10 Seconds x 2 |
| Moisture Sensitivity Level (MSL) per J-STD-033 | 1 |
| Termination Finish | Sn/Ag3.0/Cu0.5 |
| Seal Method | Resistance Weld |
| Lead (Pb) Free | Yes |
| RoHS Compliant | Yes-No Exemptions |

| Frequency Range (MHz) | Operating Mode | Max ESR Ω |
|-----------------------|----------------|------------------|
| 3.200 ~ 3.500 | Fundamental | 300 |
| >3.500 ~ 4.000 | Fundamental | 200 |
| >4.000 ~ 5.000 | Fundamental | 150 |
| >5.000 ~ 6.000 | Fundamental | 120 |
| >6.000 ~ 7.000 | Fundamental | 100 |
| >7.000 ~ 9.000 | Fundamental | 80 |
| >9.000 ~ 13.000 | Fundamental | 60 |
| >13.000 ~ 20.000 | Fundamental | 40 |
| >20.000 ~ 40.000 | Fundamental | 30 |
| 24.000 ~ 70.000 | 3rd OT | 100 |
| >70.000 ~ 80.000 | 3rd OT | 70 |

| DIMENSIONS / MECHANICAL SPECIFICATIONS |
|---|
|  |
|  |
|  |
| <p style="text-align: center;">Recommended Solder Pad Layout</p>  <p style="text-align: center;">Dimensions are in millimeters.</p> |
| <p>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.</p> |

AVAILABLE OPERATING TEMPERATURES AND STABILITIES*

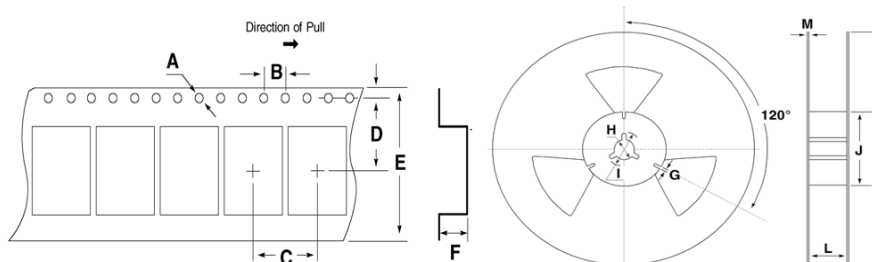
| Operating Temperature | ±5 PPM | ±10 PPM | ±15 PPM | ±20 PPM | ±25 PPM | ±30 PPM | ±50 PPM | ±100 PPM |
|-----------------------|--------|---------|---------|---------|---------|---------|---------|----------|
| -10°C to+60°C | O | O | O | O | O | O | O | O |
| -20°C to +70°C | Δ | O | O | O | O | O | O | O |
| -40°C to +85°C | X | X | O | O | O | O | O | O |
| -40°C to+105°C | X | X | X | X | X | Δ | O | O |
| -40°C to+125°C | X | X | X | X | X | X | Δ | O |
| -55°C to+125°C | X | X | X | X | X | X | Δ | O |

Key: O = Available, X = Not Available, Δ = Consult Fox Technical Support *Does not imply a stocked part.

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 | 12.0 | 11.5 | 24.0 | 4.8 | -T1 = 1,000 | 2.0 | ø13 | ø21 | ø80 | ø330 | 25.5 | 2.0 |



Available Options & Part Identification for Crystal Model C4SD¹

Sample PN: **FC4SDCBMF25.0-T1**

| F | C4SD | C | B | M | F | 25.0 | -T1 |
|------------|---------------------|---|---|--|--|------------------------|---|
| Fox | Model Number | 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 Capacitance² A = Series E = 10pF G = 12pF J = 15pF K = 16pF L = 18pF M = 20pF | Operating Temperature D = -10 to +60°C F = -20 to +70°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.



2 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

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

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