

Features

- VCXO
- Supply Voltage: 3.3V

| SPECIFICATIONS | |
|---|------------------------------|
| PARAMETERS | MAX (Unless otherwise noted) |
| Frequency Range | 1.0~ 125.000 MHz |
| Temperature Range | |
| Operating (T _{OPR}) | See options below |
| Storage (T _{STG}) | -55°C ~ +125°C |
| Frequency Stability | (See Table 1 below) |
| Pullability (V _C = 1.65V ± 1.65V) | (See Table 2 below) |
| Supply Voltage (V _{DD}) | 3.3V ± 5% |
| Control Voltage (V _C) | 1.65V ± 1.5V |
| Input Current (I _{DD}) | |
| 1.0~ 30.000MHz | 15 mA |
| 30+ ~ 52.000MHz | 25 mA |
| 52+ ~ 125.000MHz | 35 mA |
| Output Symmetry (50% V _{DD}) | 40% ~ 60% |
| Rise/Fall Time (20% ~ 80% V _{DD}) (T _R /T _F) | 5 nS |
| Output Voltage (V _{OL}) | 10%V _{DD} |
| (V _{OH}) | 90%V _{DD} Min |
| Output Load (HCMOS) | 15 pF |
| Start-up Time (T _S) | 10 mS |
| Frequency Linearity | ± 10% |
| Modulation Bandwidth | 20 kHz Min |
| V _C Input Impedance | 5 MΩ typ |
| Enable Time | 10 mS |
| Disable Time | 150 nS |

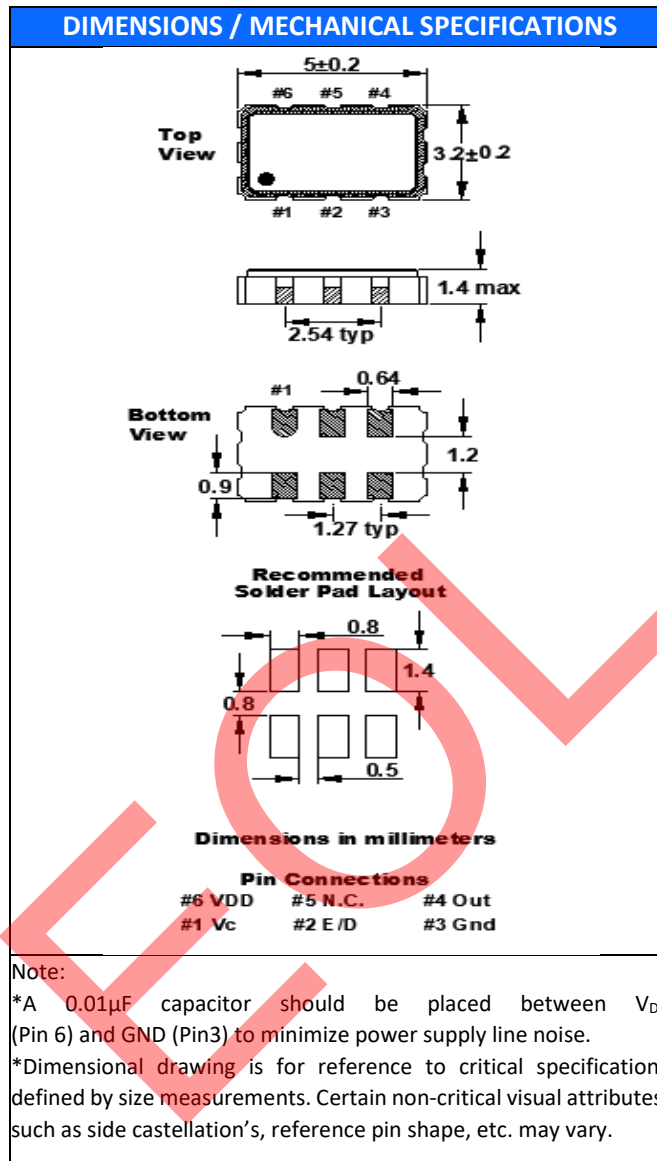
Table 1

| Available Options by Stability & Operating Temp | | |
|---|----------------------------|-----------------------|
| Frequency Stability | Operating Temperature (°C) | Frequency Range (MHz) |
| ±25PPM | -20 ~ +70 | 1.0 ~ 125.0 |
| ±25PPM | -40 ~ +85 | 1.0 ~ 125.0 |
| ±50PPM | -20 ~ +70 | 1.0 ~ 125.0 |
| ±50PPM | -40 ~ +85 | 1.0 ~ 125.0 |

Table 2

| Frequency Pullability | Frequency Range (MHz) |
|-----------------------|-----------------------|
| ±25PPM | 1.0 ~ 125.0 |
| ±50PPM | 1.0 ~ 125.0 |
| ±100PPM | 1.0 ~ 100.0 |

Stability inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, Shock, vibration, reflow, and one-year aging.

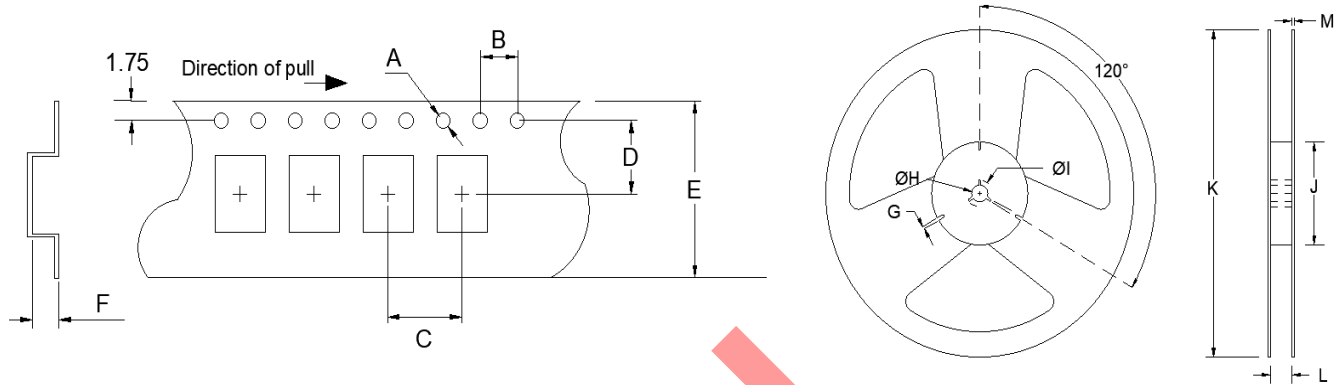


| STANDARD SPECIFICATIONS | |
|----------------------------------|------------------------------|
| PARAMETERS | MAX (Unless otherwise noted) |
| Maximum Soldering Temp / Time | 260°C / 10 Seconds x 2 |
| Moisture Sensitivity Level (MSL) | 1 |
| Termination Finish | Au over Ni |
| Seal Method | Seam |
| Lead (Pb) Free | Yes |
| ROHS/REACH Compliant | Yes |

| ENABLE / DISABLE FUNCTION | |
|--|----------------|
| Pin ¹ | Output (pin 3) |
| OPEN ¹ | Active |
| '1' Level V _{IH} ≥ 70%V _{DD} | Active |
| '0' Level V _{IL} ≤ 30%V _{DD} | High Z |

¹ An internal pull-up resistor from pin 1 to pin 4 allows active output if pin 1 is left open.

| 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 | 1.7 | -T1 = 1,000 | 2.0 | ø13 | ø21 | ø62 | ø180 | 13.5 | 2.0 |



Available Options & Part Identification for HCMOS SMD VCXO Y5C*

Sample PN: **FY5CBJM27.0-T1**

| F | Y5C | B | J | M | 27.0 | -T1 |
|------------|---------------------|---------------------------------|---|--|------------------------|---|
| Fox | Model Number | Voltage B = 3.3V ± 5% | Stability/Pull ability E = ±25ppm/±50ppm F = ±50ppm/±50ppm H = ±25ppm/±100ppm J = ±50ppm/±100ppm | Operating Temperature F = -20 to +70°C M = -40 to +85°C | Frequency (MHz) | Values Added Options Blank = Bulk T1 = 1,000 pcs |

* Not all frequencies in the frequency range, or every combination of stability, temp range, and voltage available.

Reliability Test Conditions

Please contact Abracon Quality Assurance department