

7.5mm x 5.2mm HCMOS VCXO



Features

VCXO

Supply Voltage: 3.3V

| 3.3V SPECIFICATIONS | | | | | | | |
|-----------------------------|-------------------------------------|--|--|--|--|--|--|
| | PARAMETERS | MAX (Unless otherwise noted) | | | | | |
| Frequency Ran | ge | 1.000~ 96.000 MHz | | | | | |
| Temperature R | ange | | | | | | |
| Operating | (T _{OPR}) | See table and options below | | | | | |
| Storage | (T _{STG}) | -40°C ~ +85°C | | | | | |
| Frequency Stak | oility | See options below | | | | | |
| Pullability (V _c | = 1.65V ± 1.5V) | See options below | | | | | |
| Supply Voltage | (V _{DD}) | 3.3V ± 5% | | | | | |
| Control Voltage | e (V _C) ² | 1.65V ± 1.5V | | | | | |
| Input Current | (I _{DD}) | | | | | | |
| | 1.0 ~ 30MHz | 15 mA | | | | | |
| | >30.0 ~ 45MHz | 25 mA | | | | | |
| | >45.0 ~ 96MHz | 50 mA | | | | | |
| Output Symme | try (50% V _{DD}) | 40% ~ 60% | | | | | |
| Rise/Fall Time | $(10\% \sim 90\% V_{DD}) (T_R/T_F)$ | 5 nS | | | | | |
| Output Voltage | e (V _{OL}) | +0.4V (I _{OL} = +5mA) | | | | | |
| | (V _{OH}) | V_{DD} - 0.4V Min (I_{OH} = -5mA) | | | | | |
| Output Load | (HCMOS) | 15 pF | | | | | |
| Start-up Time | (T _s) | 10 mS | | | | | |
| Enable/Disable | Time ³ | 150 nS | | | | | |
| Frequency Line | arity | ± 10% | | | | | |
| Modulation Ba | ndwidth | 20 kHz Min | | | | | |

| ENABLE / DISABLE FUNCTION | | | | | |
|--|----------------|--|--|--|--|
| E/D (Pin 2) ¹ | Output (pin 4) | | | | |
| OPEN ¹ | Active | | | | |
| '1' Level V _{IH} ≥ 70%V _{DD} | Active | | | | |
| '0' Level $V_{IL} \le 30\%V_{DD}$ | High Z | | | | |

| Available Options by Stability & Operating Temp | | | | | | | |
|---|----------------------------|-----------------------|--|--|--|--|--|
| Frequency Stability | Operating Temperature (°C) | Frequency Range (MHz) | | | | | |
| ±100PPM ² | -10 ~ +70 | 1.0 ~ 96.0 | | | | | |
| ±100PPM ² | -40 ~ +85 | 1.0 ~ 96.0 | | | | | |
| ±50PPM ² | -10 ~ +70 | 1.0 ~ 96.0 | | | | | |
| ±50PPM ² | -40 ~ +85 | 1.0 ~ 96.0 | | | | | |
| ±25PPM² | -10 ~ +70 | 1.0 ~ 96.0 | | | | | |
| ±25PPM³ | -40 ~ +85 | 1.0 ~ 96.0 | | | | | |

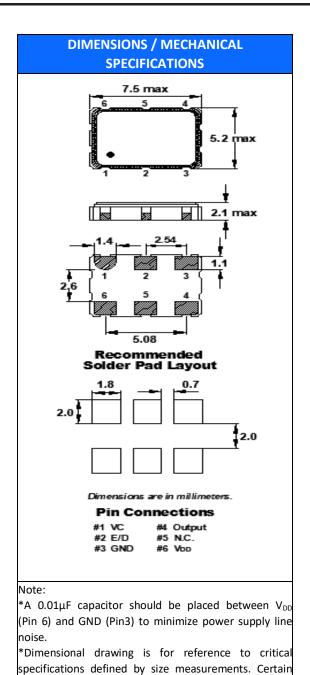
¹ An internal pull-up resistor from pin 2 to pin 6 allows active output if pin 2 is left open (no connect).

² Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, shock, Vibration, reflow, and one-year aging and Vc=1.65V.

³ Inclusive of 25°C tolerance, operating temperature range and Vc=1.65V.

7.5mm x 5.2mm HCMOS VCXO





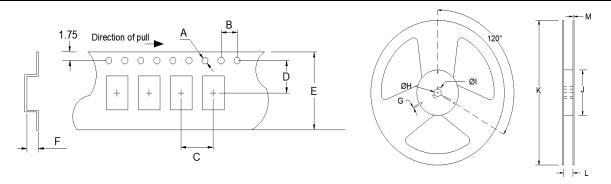
| non-critical visual attributes, such as side castellation's, | | | | | | | |
|--|------------------------------|--|--|--|--|--|--|
| STANDARD SPECIFICATIONS | | | | | | | |
| PARAMETERS | MAX (Unless otherwise noted) | | | | | | |
| Maximum Soldering Temp / Time | 260°C / 10 Seconds x 2 | | | | | | |
| Moisture Sensitivity Level (MSL) | 1 | | | | | | |
| Termination Finish | Au over Ni | | | | | | |
| Seal Method | Seam | | | | | | |
| Lead (Pb) Free | Yes | | | | | | |
| ROHS/REACH Compliant | Yes | | | | | | |



7.5mm x 5.2mm HCMOS VCXO



| TAPE SPECIFICATIONS (mm) | | | | | | RE | EL SPE | CIFICAT | IONS (m | m) | | | |
|--------------------------|-----|-----|-----|------|------|----------------------------|--------|---------|---------|-----|------|------|-----|
| Α | В | С | D | E | F | REEL QTY | G | Н | - 1 | J | К | L | М |
| ø1.55 | 4.0 | 8.0 | 7.5 | 16.0 | 2.15 | -T2 = 2,000 -T1 = 1,000 | 2.0 | Ø13 | Ø21 | Ø80 | Ø255 | 17.5 | 2.0 |



| | Available Options & Part Identification for HCMOS VCXO FY7H* Sample PN: FY7HCJM27.0-T2 | | | | | | | | |
|----------------------|--|--------------------------------|---|--|-----------------|---|--|--|--|
| F Y7H C J M 27.0 -T2 | | | | | | | | | |
| <u>Fox</u> | <u>Model</u> <u>Number</u> | <u>Voltage</u> C = 3.3V±10% | Stability/Pullability E = ±25PPM/±50PPM F = ±50PPM/±50PPM H = ±25PPM/±100PPM J = ±50PPM/±100PPM K = ±100PPM/±100PPM | | Frequency (MHz) | Values Added Options Blank = Bulk T1 = 1,000 pcs T2 = 2,000 pcs | | | |

^{*} Not all frequencies in the frequency range, or every combination of stability, operating temperature range, and supply voltage available.

Reliability Test Conditions

Please contact Abracon Quality Assurance department

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ABRACON:

FY7HCJE12.288-T1 FY7HCJE27.0-T1 FY7HCJE27.0-T2 FY7HCHM8.448-T1 FY7HCJE8.192-T2