

F07HHAAM20.0-T1 Datasheet

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| | |
|------------------------------|---------------------------------|
| DiGi Electronics Part Number | F07HHAAM20.0-T1-DG |
| Manufacturer | Fox Electronics |
| Manufacturer Product Number | F07HHAAM20.0-T1 |
| Description | OSC XO 20MHZ 5V HCMOS |
| Detailed Description | Oscillator |



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Purchase and inquiry

Manufacturer Product Number:

FO7HHAAM20.0-T1

Series:

*

Manufacturer:

Fox Electronics

Product Status:

Active

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8542.39.0001

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

FO7HH

(Former F3345 Series)

7mm x 5mm HCMOS SMD Oscillator



Features

- HCMOS Output
- Stabilities to ± 20 PPM
- Temperature Ranges to -40°C to $+85^{\circ}\text{C}$
- Supply Voltage: 5.0V

| ELECTRICAL CHARACTERISTICS | |
|--|---|
| PARAMETERS | MAX (Unless otherwise noted) |
| Frequency Range (F_0) | 1 ~ 125MHz |
| Temperature Range | |
| Storage (T_{STG}) | $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ |
| Supply Voltage (V_{DD}) | 5.0V $\pm 10\%$ |
| Input Current (I_{DD}) | |
| 1.000 ~ 25.000MHz | 25 mA |
| 25.000+ ~ 50.000MHz | 40 mA |
| 50.000+ ~ 67.000MHz | 60 mA |
| 67.000+ ~ 80.000MHz | 73 mA |
| 80.000+ ~ 125.000MHz | 90 mA |
| Output Symmetry (50% V_{DD}) | |
| 1 ~ 80MHz | 45/55% |
| 80+ ~ 125MHz | 40/60% |
| Rise/Fall Time (10%/90% V_{DD} Levels) (T_R/T_F) | |
| 1 ~ 80.000MHz | 7nS |
| 80+ ~ 100MHz | 5nS |
| 100+ ~ 125MHz | 4nS |
| Output Voltage (V_{OL}) | 10 % V_{DD} |
| (V_{OH}) | 90 % V_{DD} Min |
| Output Load (HCMOS) | 50 pF |
| Start-up Time (T_S) | 10 mS |
| Output Disable Time ¹ | 100 nS |
| Output Enable Time ¹ | 100 nS |

| ENABLE / DISABLE FUNCTION | |
|------------------------------------|----------------|
| Pin 1 | Output (pin 3) |
| OPEN ¹ | Active |
| '1' Level $V_{IH} \geq 70\%V_{DD}$ | Active |
| '0' Level $V_{IL} \leq 30\%V_{DD}$ | High Z |

| Available Options by Stability & Operating Temp | | |
|---|--|-----------------------|
| Frequency Stability | Operating Temperature ($^{\circ}\text{C}$) | Frequency Range (MHz) |
| $\pm 100\text{PPM}^2$ | $-10 \sim +70$ | 1.000 ~ 125.000 |
| $\pm 100\text{PPM}^2$ | $-40 \sim +85$ | 1.000 ~ 125.000 |
| $\pm 50\text{PPM}^2$ | $-10 \sim +70$ | 1.000 ~ 125.000 |
| $\pm 50\text{PPM}^2$ | $-40 \sim +85$ | 1.000 ~ 125.000 |
| $\pm 25\text{PPM}^2$ | $-10 \sim +70$ | 1.000 ~ 125.000 |
| $\pm 25\text{PPM}^3$ | $-40 \sim +85$ | 1.000 ~ 80.000 |
| $\pm 20\text{PPM}^3$ | $-10 \sim +70$ | 1.000 ~ 80.000 |

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

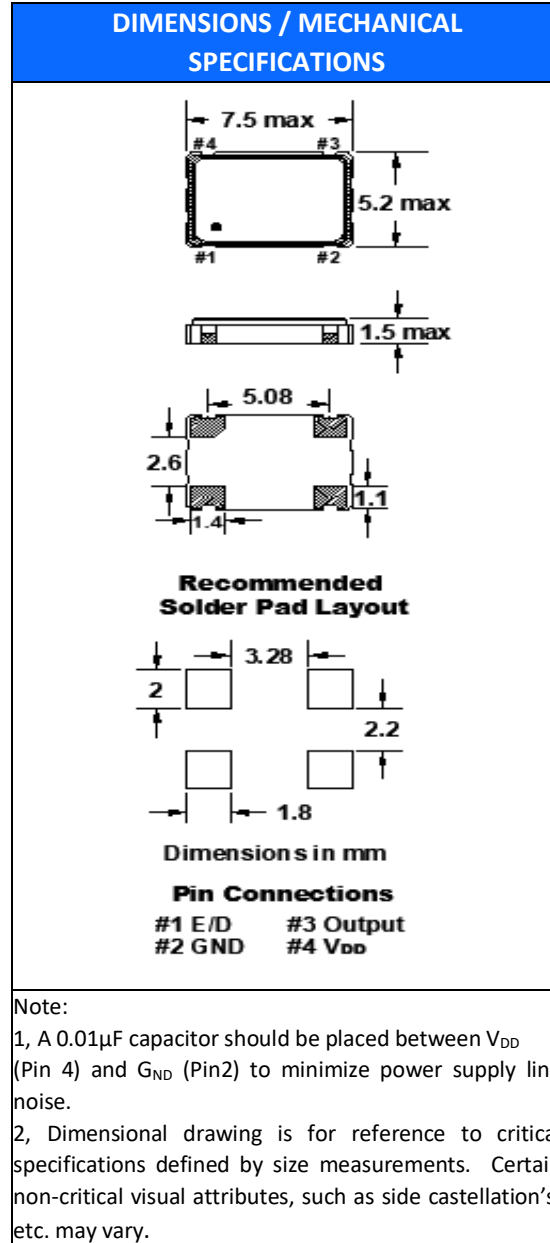
² Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, Reflow, one year aging, shock, and vibration.

³ Inclusive of 25°C tolerance and operating temperature range.

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7mm x 5mm HCMOS SMD Oscillator



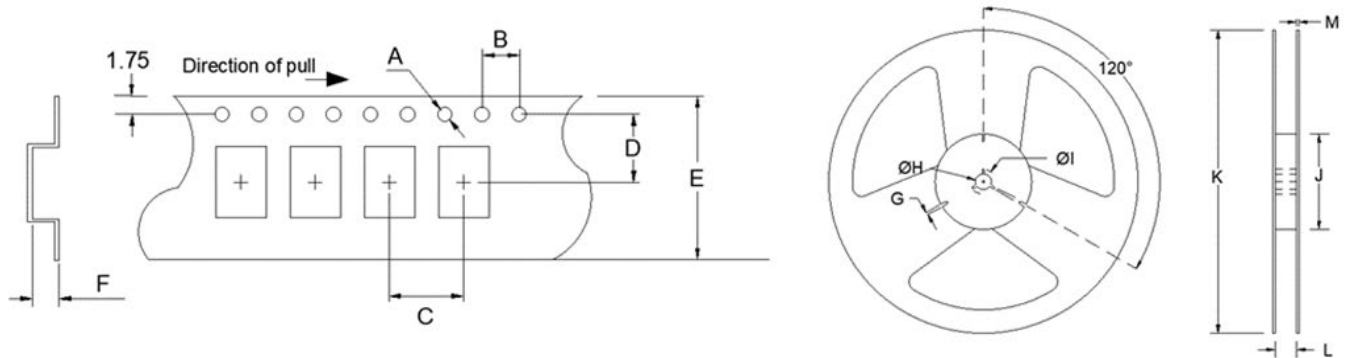
| STANDARD SPECIFICATIONS | |
|----------------------------------|--|
| PARAMETERS | MAX (Unless otherwise noted) |
| Maximum Soldering Temp / Time | 260°C / 10 Seconds x 2 |
| Moisture Sensitivity Level (MSL) | N/A |
| Termination Finish | Au (0.3~1 μ m) over Ni (1.27~8.89 μ m) |
| Seal Method | Seam |
| Lead (Pb) Free | Yes |
| RoHS Compliant | Yes, no exemptions |
| REACH Compliant (latest version) | Yes |

FO7HH

(Former F3345 Series)

**7mm x 5mm
HCMOS SMD Oscillator**

| TAPE SPECIFICATIONS (mm) | | | | | | REEL SPECIFICATIONS (mm) | | | | | | | |
|--------------------------|-----|-----|-----|------|------|--------------------------|-----|-----|-----|-----|------|------|-----|
| A | B | C | D | E | F | REEL QTY | G | H | I | J | K | L | M |
| ø1.5 | 4.0 | 8.0 | 7.5 | 16.0 | 2.15 | -T1 = 1,000 | 2.0 | ø13 | ø21 | ø80 | ø255 | 17.5 | 2.0 |

**Available Options & Part Identification***Sample PN: **FO7HHABM25.0-T1**

| F | O7HH | A | B | M | 25.0 | -T1 |
|------------|---------------------|------------------------------|---|--|------------------------|---|
| Fox | Model Number | Voltage A = 5V±10% | Stability A = ±100 PPM B = ±50 PPM D = ±25 PPM E = ±20 PPM | Operating Temperature E = -10 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.
See stabilities and op temps for each V_{DD}.

Reliability Test Conditions

Please contact Abracon Quality Assurance department

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