

Features

- VCXO
- Supply Voltage: 3.3V

3.3V SPECIFICATIONS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range	1.000~ 96.000 MHz
Temperature Range	
Operating (T _{OPR})	See table and options below
Storage (T _{STG})	-40°C ~ +85°C
Frequency Stability	See options below
Pullability (V _C = 1.65V ± 1.5V)	See options below
Supply Voltage (V _{DD})	3.3V ± 5%
Control Voltage (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 Symmetry (50% V _{DD})	40% ~ 60%
Rise/Fall Time (10% ~ 90% V _{DD}) (T _R /T _F)	5 nS
Output Voltage (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 Linearity	± 10%
Modulation Bandwidth	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} ≤ 30%V _{DD}	High Z

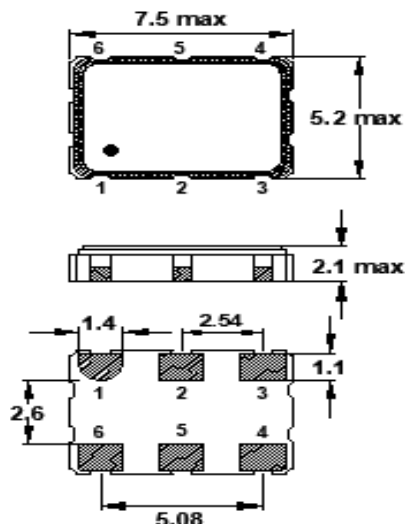
Available Options by Stability & Operating Temp		
Frequency Stability	Operating Temperature (°C)	Frequency Range (MHz)
±100PPM ²	-10 ~ +70	1.0 ~ 96.0
±100PPM ²	-40 ~ +85	1.0 ~ 96.0
±50PPM ²	-10 ~ +70	1.0 ~ 96.0
±50PPM ²	-40 ~ +85	1.0 ~ 96.0
±25PPM ²	-10 ~ +70	1.0 ~ 96.0
±25PPM ³	-40 ~ +85	1.0 ~ 96.0

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

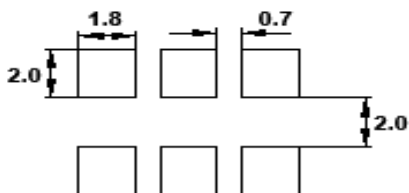
² Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, shock, Vibration, reflow, and one-year aging and V_C=1.65V.

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

DIMENSIONS / MECHANICAL SPECIFICATIONS



Recommended Solder Pad Layout



Dimensions are in millimeters.

Pin Connections

#1 VC #4 Output
#2 E/D #5 N.C.
#3 GND #6 V_{DD}

Note:

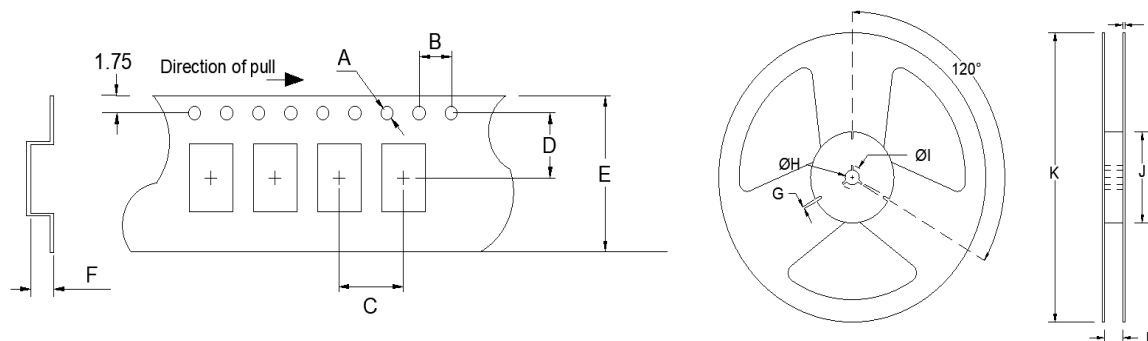
*A 0.01μF capacitor should be placed between V_{DD} (Pin 6) and GND (Pin 3) to minimize power supply line noise.

*Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellations,

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

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	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
Fox	Model Number	Voltage C = 3.3V±10%	Stability/Pullability E = ±25PPM/±50PPM F = ±50PPM/±50PPM H = ±25PPM/±100PPM J = ±50PPM/±100PPM K = ±100PPM/±100PPM	Operating Temperature E = -10 to +70°C M = -40 to +85°C	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

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[FY7HCJE36.864-T2](#) [FY7HCJE44.736-T1](#) [FY7HCJE10.0-T1](#) [FY7HCJE10.0-T2](#) [FY7HCJE44.736-BULK](#)
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[T2](#) [FY7HCJM49.152-T1](#) [FY7HCJM45.1584-T1](#) [FY7HCJM49.152-BULK](#) [FY7HCJE24.576-BULK](#) [FY7HCJE24.576-T2](#)
[FY7HCHM49.152-T2](#) [FY7HCJE24.576-T1](#) [FY7HCJE74.25-BULK](#) [FY7HCHM30.72-T1](#) [FY7HCHM32.768-BULK](#)
[FY7HCJE74.25-T1](#) [FY7HCKM27.0-BULK](#) [FY7HCHM32.768-T2](#) [FY7HCHM30.72-T2](#) [FY7HCHM49.152-BULK](#)
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[FY7HCJE27.0-BULK](#) [FY7HCEE24.576-BULK](#) [FY7HCHE36.864-T1](#) [FY7HCJM27.0-T1](#) [FY7HCEE24.576-T1](#)
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