

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

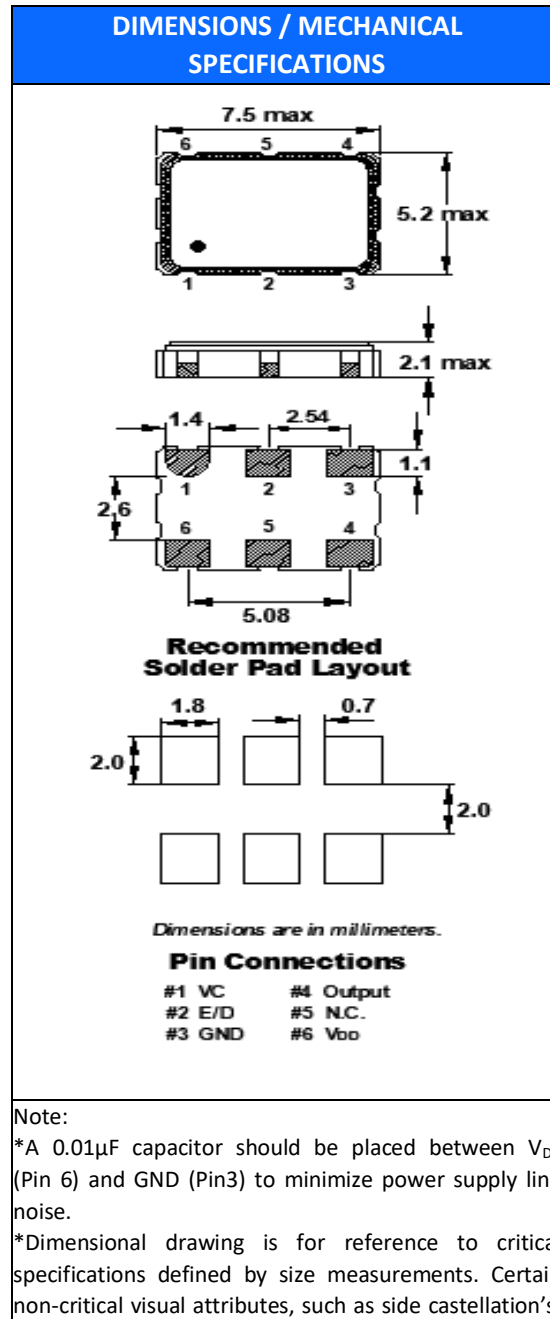
ENABLE / DISABLE FUNCTION	
E/D (Pin 2) ¹	Output (pin 4)
OPEN ¹	Active
'1' Level V _{IH} ≥ 70%V _{DD}	Active
'0' Level V _{IL} ≤ 30%V _{DD}	High Z

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.



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

FY7H

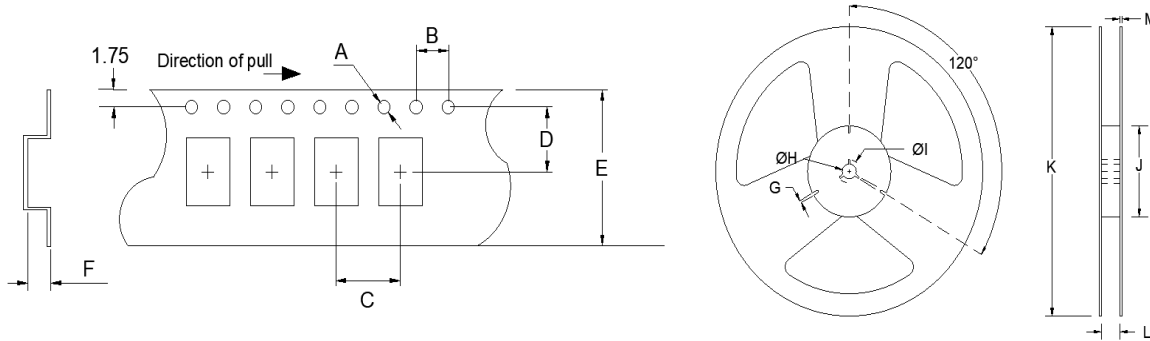
(Former VCS series)

7.5mm x 5.2mm

HCMOS VCXO



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
Please contact Abracon Quality Assurance department