

ECN/PCN No.: 3937

For Manufacturer			
<b>Product Description:</b> Voltage Controlled Crystal Oscillator VCXO	<b>Abracon Part Number / Part Series:</b> FY3H Series	<input type="checkbox"/> Documentation only <input type="checkbox"/> ECN <input checked="" type="checkbox"/> EOL	<input checked="" type="checkbox"/> Series <input type="checkbox"/> Part Number
<b>Affected Revision:</b> Rev. A	<b>New Revision:</b> EOL	<b>Application:</b> <input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-Safety	
<b>Prior to Change:</b> FY3H Rev. A <a href="https://abracon.com/datasheets/Fox/FY3H.pdf">https://abracon.com/datasheets/Fox/FY3H.pdf</a>			
<b>After Change:</b> EOL			
<b>Cause/Reason for Change:</b> Discontinuation of manufacturing capability			
Change Plan			
<b>Effective Date:</b> 08/18/21	<b>Additional Remarks:</b> N/A		
<b>Change Declaration:</b> N/A			
<b>Issued Date:</b> 08/18/21	<b>Issued By:</b> <i>Stephanie Lopez</i>	<b>Issued Department:</b> Engineering	
<b>Approval:</b> <i>Thomas Culhane</i> Engineering Director	<b>Approval:</b> <i>Reuben Quintanilla</i> Quality Director	<b>Approval:</b> <i>Ying Huang</i> Purchasing Director	
For Abracon EOL only			
<b>Last Time Buy (if applicable):</b> None	<b>Alternate Part Number / Part Series:</b> None		
<b>Additional Approval:</b>	<b>Additional Approval:</b>	<b>Additional Approval:</b>	
Customer Approval (If Applicable)			
<b>Qualification Status:</b> <input type="checkbox"/> Approved <input type="checkbox"/> Not accepted <i>Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.</i>			
<b>Customer Part Number:</b>		<b>Customer Project:</b>	
<b>Company Name:</b>	<b>Company Representative:</b>	<b>Representative Signature:</b>	
<b>Customer Remarks:</b>			

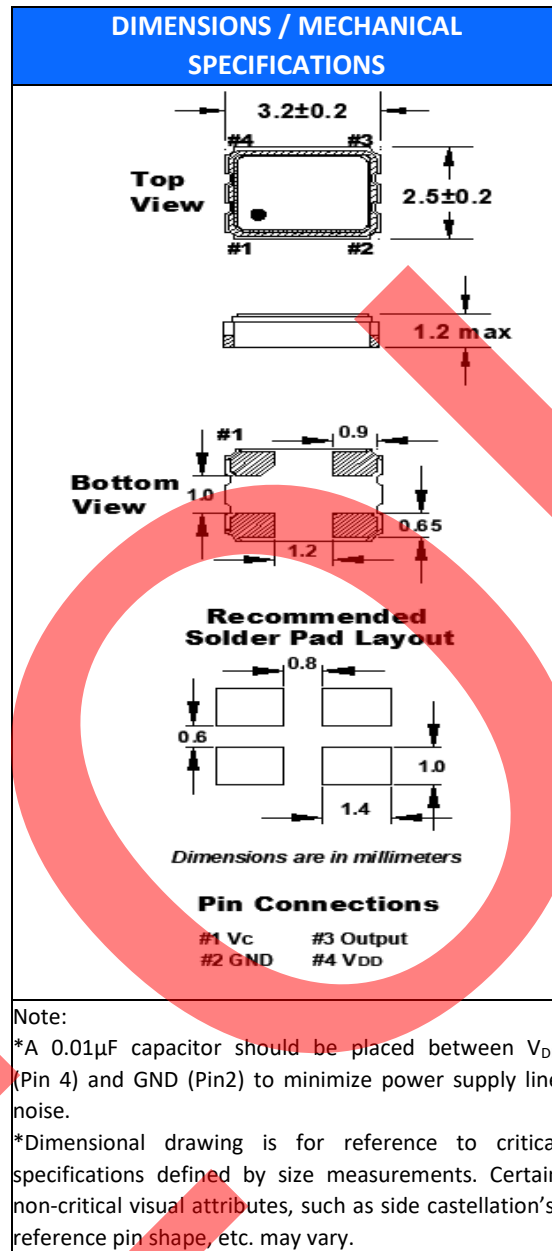
## Features

- VCXO
- Supply Voltage: 3.3V

SPECIFICATIONS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range	1.25~ 125.000 MHz
Temperature Range	
Operating (T <sub>OPR</sub> )	See Table
Storage (T <sub>STG</sub> )	-55°C ~ +125°C
Frequency Stability	(See options below)
Pull ability (V <sub>C</sub> = 1.65V ± 1.65V)	±100ppm
Supply Voltage (V <sub>DD</sub> )	3.3V ± 10%
Control Voltage (V <sub>C</sub> )	1.65V ± 1.65V
Input Current (I <sub>DD</sub> )	
1.25 ~ 50.000MHz	10 mA
50+ ~ 80.000MHz	15 mA
80+ ~ 100.000MHz	20 mA
100+ ~ 125MHz	25 mA
Output Symmetry (50% V <sub>DD</sub> )	40% ~ 60%
Rise/Fall Time (20% ~ 80% V <sub>DD</sub> ) (T <sub>R</sub> /T <sub>F</sub> )	5 nS
Output Voltage (V <sub>OL</sub> )	10%V <sub>DD</sub>
(V <sub>OH</sub> )	90%V <sub>DD</sub> Min
Output Load (HCMOS)	15 pF
Start-up Time (T <sub>S</sub> )	10 mS
Frequency Linearity	± 10%
Modulation Bandwidth	20 kHz Min
V <sub>C</sub> Input Impedance	5MΩ typ

Available Options by Stability & Operating Temp		
Frequency Stability	Operating Temperature (°C)	Frequency Range (MHz)
±25PPM <sup>1</sup>	-10 ~ +70	1.25 ~ 125.0
±50PPM <sup>1</sup>	-10 ~ +70	1.25 ~ 125.0
±50PPM <sup>1</sup>	-40 ~ +85	1.25 ~ 125.0

<sup>1</sup>Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, shock, Vibration, reflow, and one-year aging and V<sub>C</sub>=1.65V.



<b>STANDARD SPECIFICATIONS</b>	
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

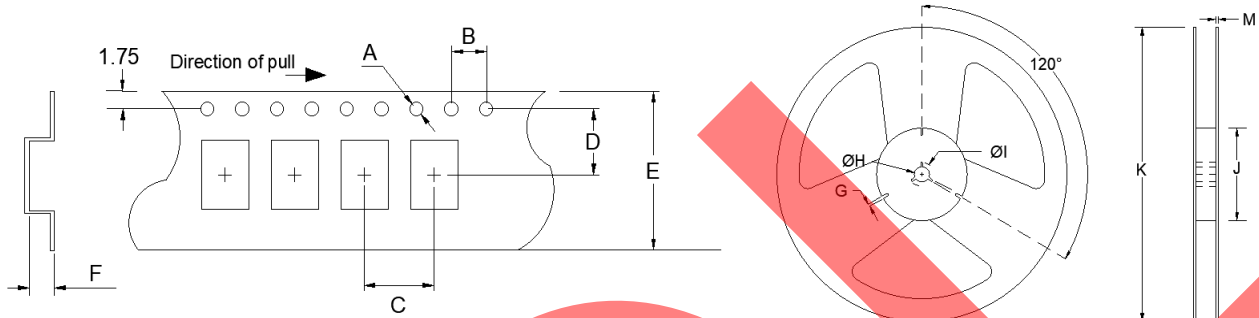
# FY3H

(Former FVM Series)

3.2mm x 2.5mm  
HCMOS SMD 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	4.0	3.5	8.0	1.4	-T3 = 3,000 -T1 = 1,000	2.0	ø13	ø21	ø60	ø180	9.0	1.2



## Available Options & Part Identification for HCMOS SMD VCXO Y3H\*

Sample PN: **FY3HCJM27.0-T3**

F	Y3H	C	J	M	27.0	-T3
<b>Fox</b>	<b>Model Number</b>	<b>Voltage</b> C = 3.3V±10%	<b>Stability/Pull ability</b> H = ±25ppm/±100ppm J = ±50ppm/±100PPM	<b>Operating Temperature</b> E = -10 to +70°C M = -40 to +85°C	<b>Frequency (MHz)</b>	<b>Values Added Options</b> Blank = Bulk T1 = 1,000 pcs T3 = 3,000 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