

ECN/PCN No.: 3937

For Manufacturer			
Product Description: Voltage Controlled Crystal Oscillator VCXO	Abrakon Part Number / Part Series: 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
Affected Revision: Rev. A	New Revision: EOL	Application:	<input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-Safety
Prior to Change: FY3H Rev. A https://abracon.com/datasheets/Fox/FY3H.pdf			
After Change: EOL			
Cause/Reason for Change: Discontinuation of manufacturing capability			
Change Plan			
Effective Date: 08/18/21	Additional Remarks: N/A		
Change Declaration: N/A			
Issued Date: 08/18/21	Issued By: <i>Stephanie Lopez</i>	Issued Department: Engineering	
Approval: <i>Thomas Culhane</i> Engineering Director	Approval: <i>Reuben Quintanilla</i> Quality Director	Approval: <i>Ying Huang</i> Purchasing Director	
For Abracon EOL only			
Last Time Buy (if applicable): <i>None</i>	Alternate Part Number / Part Series: <i>None</i>		
Additional Approval:	Additional Approval:	Additional Approval:	
Customer Approval (If Applicable)			
Qualification Status: <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>			
Customer Part Number:		Customer Project:	
Company Name:	Company Representative:	Representative Signature:	
Customer Remarks:			

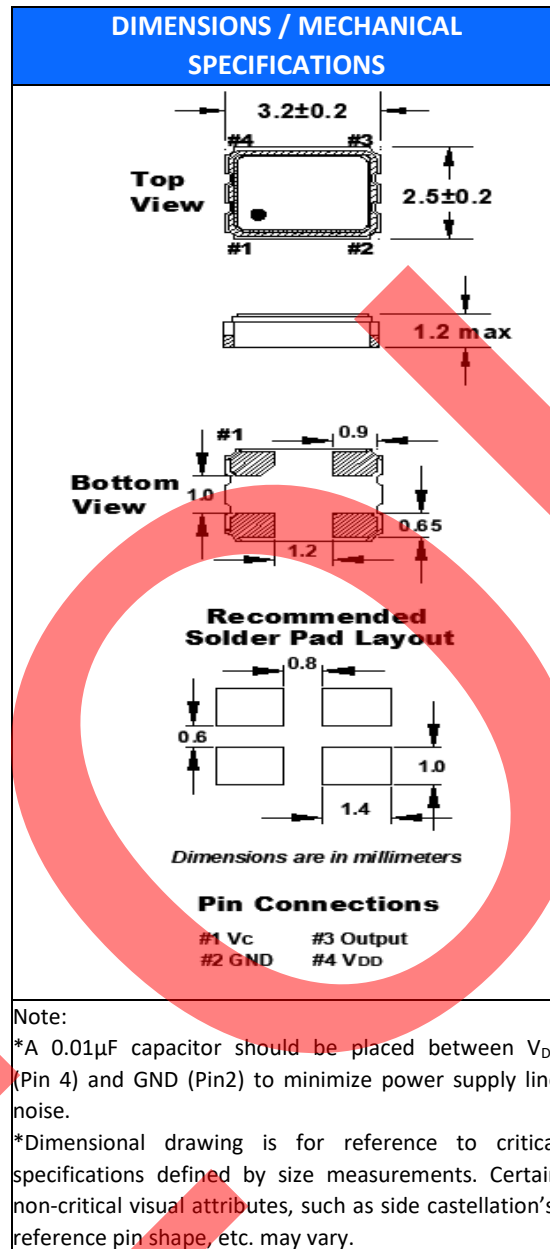
Features

- VCXO
- Supply Voltage: 3.3V

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

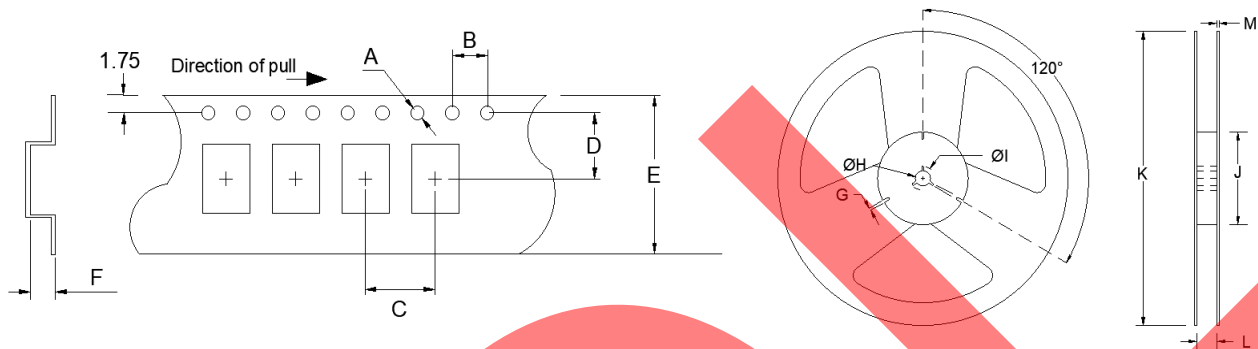
Available Options by Stability & Operating Temp		
Frequency Stability	Operating Temperature (°C)	Frequency Range (MHz)
±25PPM ¹	-10 ~ +70	1.25 ~ 125.0
±50PPM ¹	-10 ~ +70	1.25 ~ 125.0
±50PPM ¹	-40 ~ +85	1.25 ~ 125.0

¹Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, shock, Vibration, reflow, and one-year aging 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

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
Fox	Model Number	Voltage C = 3.3V±10%	Stability/Pull ability H = ±25ppm/±100ppm J = ±50ppm/±100PPM	Operating Temperature E = -10 to +70°C M = -40 to +85°C	Frequency (MHz)	Values Added Options 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

Mouser Electronics

Authorized Distributor

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ABRACON:

[FY3HCJE12.288-T1](#) [FY3HCJM45.1584-T3](#) [FY3HCJM49.152-T1](#) [FY3HCJM49.152-BULK](#) [FY3HCJM49.152-T3](#)
[FY3HCJE24.576-BULK](#) [FY3HCJE12.288-BULK](#) [FY3HCJE12.288-T3](#) [FY3HCJM45.1584-BULK](#) [FY3HCJE24.576-T3](#)
[FY3HCJE24.576-T1](#) [FY3HCJM45.1584-T1](#) [FY3HCJM32.768-BULK](#) [FY3HCJM32.768-T3](#)