



HCMOS 5x3.2mm SMD VCXO

Y5C

DATASHEET

- VCXO
- Supply Voltage: 3.3V

Specifications

Parameter	Max unless otherwise specified
Frequency Range	1.0~ 125.000MHz
Temperature Range	
Operating (T _{OPR})	See Table
Storage (T _{STG})	-55°C ~ +125°C
Frequency Stability	See Table1 below
Pullability Options (V _c = 1.65V ± 1.5V)	See Table2 below
Supply Voltage (V _{DD})	3.3V ± 5%
Control Voltage (V _c)	1.65V ± 1.5V
Input Current (I _{DD})	
1.0 ~ 30.000MHz	15 mA
30+ ~ 52.000MHz	25 mA
52+ ~ 125.000MHz	35 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	5 MΩ typ
Enable Time	10 mS
Disable Time	150 nS

Table 1

• Available Options by Stability & Operating Temp

Frequency Stability	Operating Temperature (°C)	Frequency Range (MHz)
±25PPM	-20 ~ +70	1.0 ~ 125.0
±25PPM	-40 ~ +85	1.0 ~ 125.0
±50PPM	-20 ~ +70	1.0 ~ 125.0
±50PPM	-40 ~ +85	1.0 ~ 125.0

Table 2

Frequency Pullability	Frequency Range (MHz)
±25PPM	1.0 ~ 125.0
±50PPM	1.0 ~ 125.0
±100PPM	1.0 ~ 100.0

Stability inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, shock, vibration, reflow, and one-year aging.

ENABLE / DISABLE FUNCTION

Pin2	Output (pin 4)
OPEN ¹	Active
'1' Level V _{IH} ≥ 70%V _{DD}	Active
'0' Level V _{IL} ≤ 30%V _{DD}	High Z

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

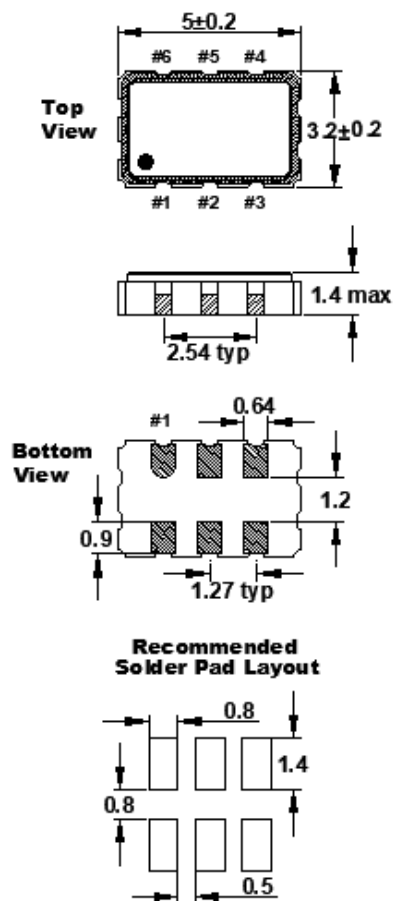




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Dimensions in millimeters

Pin Connections

#6 VDD	#5 N.C.	#4 Out
#1 Vc	#2 E/D	#3 Gnd

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

Notes:

*A 0.01µF capacitor should be placed between VDD (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, reference pin shape, etc. may vary.





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Tape Specifications (millimeters)							Reel Specifications (millimeters)						
A	B	C	D	E	F	Reel Qty	G	H	I	J	K	L	M
Ø1.55	4.0	8.0	5.5	12.0	1.7	-T1 = 1,000	2.0	Ø13	Ø21	Ø62	Ø180	13.5	2.0

Diagram illustrating the dimensions and specifications for the HCMOS 5x3.2mm SMD VCXO tape and reel. The left diagram shows the tape layout with dimensions A, B, C, D, E, F, and a 1.75mm pitch. The right diagram shows the reel with dimensions G, H, I, J, K, L, M and a 120-degree angle.

Available Options & Part Identification*

Example: **F** **Y5C** **B** **J** **M** **27.0**

F	Y5C	B	J	M	27.0
F = Fox	Model Number	Voltage B = 3.3V ± 5%	Stability/Pullability E = ±25ppm/±50ppm F = ±50ppm/±50ppm H = ±25ppm/±100ppm J = ±50ppm/±100ppm	Operating Temperature F = -20 to +70°C M = -40 to +85°C	Frequency (MHz)

*Not all frequencies in the frequency range, or every combination of stability, temp range, and voltage available.



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Title / Description: Y5C SERIES STANDARD SPECIFICATIONS			
Drawing Number:		Size: A	
Part Number:		Cage: 61429	
Draftsperson: BEC	Approved: MAJ		Revision Date: 03/16/2020