

Features

- VCXO
- Supply Voltage: 3.3V

SPECIFICATIONS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range	1.0~ 125.000 MHz
Temperature Range	
Operating (T _{OPR})	See options below
Storage (T _{STG})	-55°C ~ +125°C
Frequency Stability	(See Table 1 below)
Pullability (V _C = 1.65V ± 1.65V)	(See Table 2 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

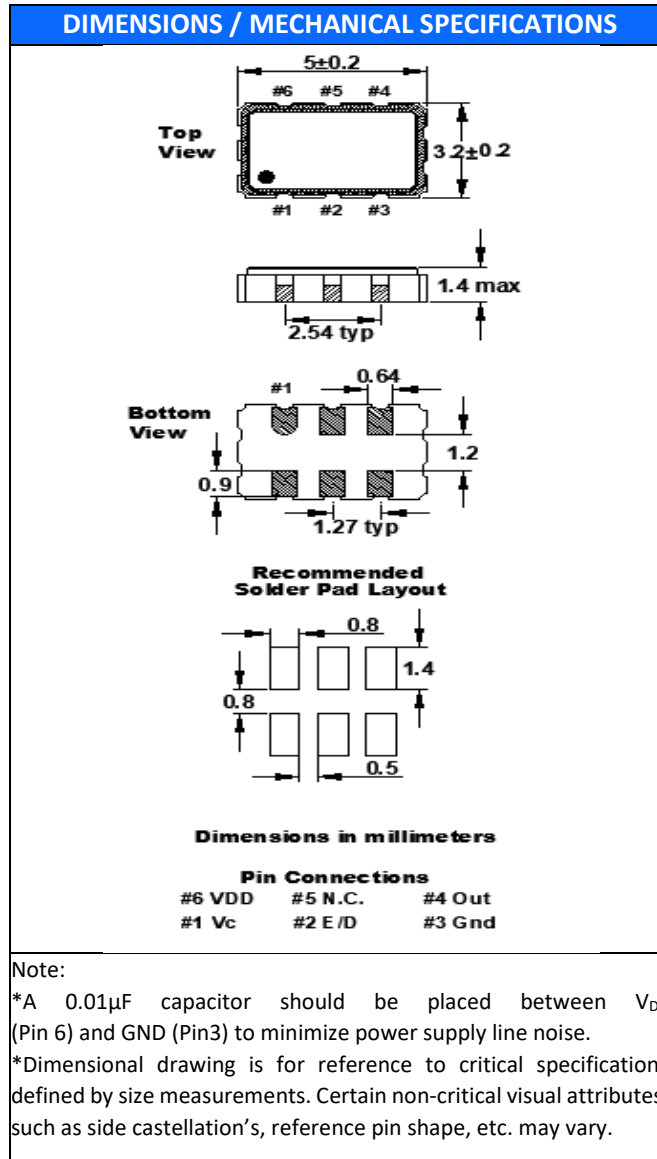
Table 1

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.

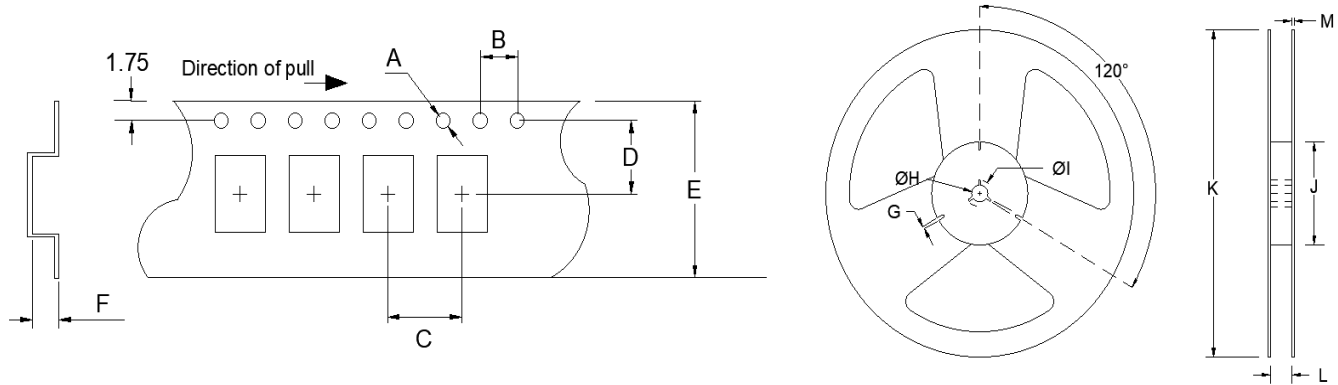


STANDARD SPECIFICATIONS	
PARAMETERS	MAX (Unless otherwise noted)
Maximum Soldering Temp / Time	260°C / 10 Seconds x 2
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au over Ni
Seal Method	Seam
Lead (Pb) Free	Yes
ROHS/REACH Compliant	Yes

ENABLE / DISABLE FUNCTION	
Pin ¹	Output (pin 3)
OPEN ¹	Active
'1' Level $V_{IH} \geq 70\%V_{DD}$	Active
'0' Level $V_{IL} \leq 30\%V_{DD}$	High Z

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

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	5.5	12.0	1.7	-T1 = 1,000	2.0	ø13	ø21	ø62	ø180	13.5	2.0



Available Options & Part Identification for HCMOS SMD VCXO Y5C*

Sample PN: FY5CBJM27.0-T1

F	Y5C	B	J	M	27.0	-T1
<u>Fox</u>	<u>Model Number</u>	<u>Voltage</u> B = 3.3V ± 5%	<u>Stability/Pull ability</u> E = ±25ppm/±50ppm F = ±50ppm/±50ppm H = ±25ppm/±100ppm J = ±50ppm/±100ppm	<u>Operating Temperature</u> F = -20 to +70°C M = -40 to +85°C	<u>Frequency (MHz)</u>	<u>Values Added Options</u> Blank = Bulk T1 = 1,000 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