

# Model 315

## HFF HCMOS VCXO

### Features

- Ceramic Surface Mount Package
- Ultra-Low Phase Jitter Performance
- High Frequency Fundamental Crystal Design
- Frequency Range 100 – 170MHz \*
- +3.3V Operation
- Output Enable Standard
- Tape and Reel Packaging, EIA-418



Part Dimensions:  
5.0 × 3.2 × 1.2mm • 62.28mg

### Applications

- Small Cells
- Wireless Communication
- Broadband Access
- SONET/SDH/DWDM
- Base Stations
- Ethernet/GbE/SyncE
- Digital Video
- Test and Measurement

#### Standard Frequencies

- 100.00MHz
- 122.88MHz
- 125.00MHz
- 153.60MHz
- 155.52MHz
- 156.25MHz
- 166.00MHz

\* Check with factory for availability.

### Description

CTS Model 315 is a low cost, small size, high performance VCXO. Employing the latest IC technology, coupled with a high frequency fundamental crystal, M315 has excellent stability and low jitter/phase noise performance.

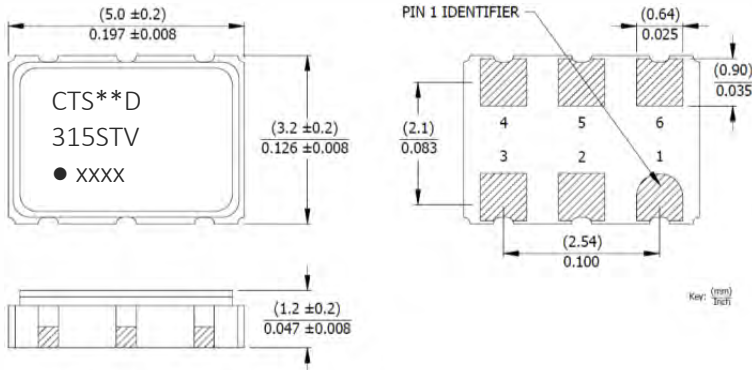
### Ordering Information

Model	Supply Voltage	Absolute Pull Range	Frequency Stability	Temperature Range	Frequency Code [MHz]	Packaging
315	L	B	3	I	XXX or XXXX	T
	Code Voltage		Code Stability		Code Frequency	
	L +3.3V ±5%		3 ±50ppm 5 ±25ppm 6 ±20ppm <sup>1</sup>		Product Frequency Code <sup>2</sup>	
		Code APR		Code Temp. Range		Code Packing
		B ±50ppm		C -20°C to +70°C I -40°C to +85°C		T 1k pcs./reel

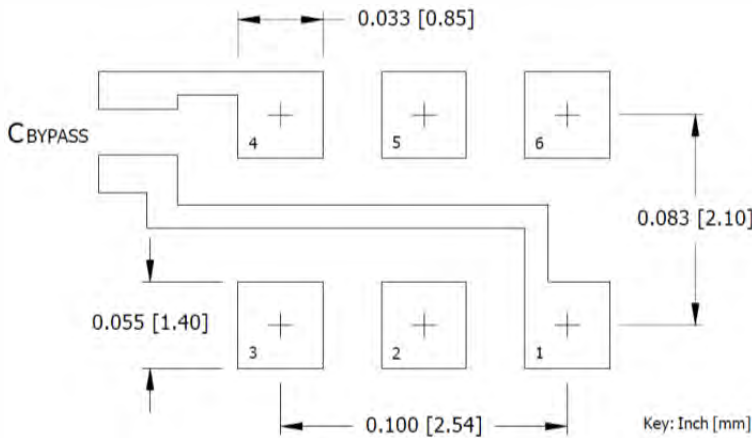
Notes:

- 1] Only available with "C" temperature range.
- 2] Refer to document 016-1454-0, Frequency Code Tables.  
3-digits for frequencies <100MHz, 4-digits for frequencies 100MHz or greater.

**Not all performance combinations and frequencies may be available.**  
Contact your local CTS Representative or CTS Customer Service for availability.



1. \*\* - Manufacturing Site Code.
  2. D – Date Code. See Table I for codes.
  3. ST – Frequency Stability/Temperature Code. [Refer to Ordering Information]
  4. V – Voltage Code. L = 3.3V
  5. xxxx – Frequency Code. 4-digits required for frequencies 100MHz and above.
- [See document 016-1454-0, Frequency Code Tables.]



1. Termination pads (e4). Barrier-plating is nickel [Ni] with gold [Au] flash plate.
2. Reflow conditions per JEDEC J-STD-020; +260°C maximum, 20 seconds.
3. MSL = 1.

1	V <sub>C</sub>	Control Voltage
2	EOH	Enable
3	GND	Circuit & Package
4	Output	RF Output
5	N.C.	No Connect
6	V <sub>CC</sub>	Supply Voltage

Table I - Date Code

YEAR		MONTH					JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2001	2005	2009	2013	2017		A	B	C	D	E	F	G	H	J	K	L	M	
2002	2006	2010	2014	2018		N	P	Q	R	S	T	U	V	W	X	Y	Z	
2003	2007	2011	2015	2019		a	b	c	d	e	f	g	h	j	k	l	m	
2004	2008	2012	2016	2020		n	p	q	r	s	t	u	v	w	x	y	z	

