## K1526C & K1536C

## 9x11 mm, 5.0 or 3.3 Volt, CMOS/TTL, VCXO

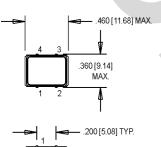


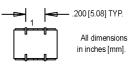
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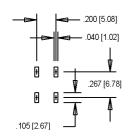


- Former Champion Product
- Phase-Locked Loops (PLL's), Clock Recovery, Reference Signal Tracking, Synthesizers, Frequency Modulation/Demodulation



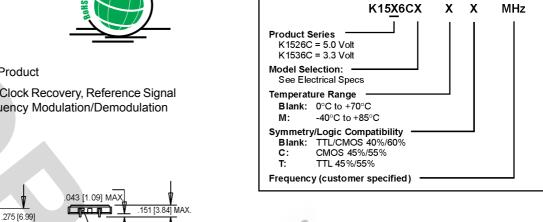


SUGGESTED SOLDER PAD LAYOUT



## **Pin Connections**

PIN	FUNCTION
1	Voltage Control
2	Ground & Gnd Plane
3	Output
4	+Vdd



Ordering Information

PARAMETER Symbol K1526CA K1526CD W1536CA K1536CD K1526CE  Frequency Range F 2 to 55 55.1 to 80 2 to 55 2 to 40 MHz				
K1536CA K1536CD K1526CE				
K1536CA K1536CD K1526CE	— DENOTES FIN I.			
K1536CA K1536CD K1526CE				
K1536CA K1536CD K1526CE				
K1536CA K1536CD K1526CE				
K1536CA K1536CD K1526CE				
Frequency Pange				
Frequency Stability $\Delta F/F$				
Overall Inclusive of Calibration, Temperature, Voltage, Load, and Aging				
<b>0°C</b> to + <b>70°C</b> ±25 ±40 ±25 ±32 ppm				
40°C to +85°C ±50 ±50 ppm				
Pullability				
Minimum ±100 ±80 ±80 ±200 ppm				
<u>Maximum</u> ±150 ±160 ±130 ppm				
PARAMETER Symbol Min. Typ. Max. Units Condition/	lotes			
Operating Temperature T <sub>A</sub> (See ordering information)  Storage Temperature T <sub>S</sub> -40 +125 °C				
Storage Temperature T <sub>S</sub> -40 +125 °C				
5   Aging	EO MU-			
Thereafter (per year)   -3/-5   +3/+5   ppm   <52 MHz / ≥				
Aging   1 <sup>2</sup> Year   -3/-5   +3/+5   ppm   <52 MHz / ≥	:52 IVITZ			
δ Collino Voltage VC 0.3 1.65 3.0 V K1536C				
TO 5.0 V K1526CE				
Linearity 10 % Positive Mo	notonic Slope			
Modulation Bandwidth fm 20 kHz +3 dB				
Input Impedance Zin 50K Ohms @ 10 kHz				
Input Voltage Vdd 4.5 5.0 5.5 V K1526C				
3.0 3.3 3.6 V K1536C				
Input Current Idd 30 mA				
Output Type CMOS/TTL				
Load 15 pF HCMOS				
Symmetry (Duty Cycle) (See ordering information)				
Logic "1" Level         Voh         Vdd -0.5         V           Logic "2" Level         Vol         0.5         V				
Output Current 20 mA				
	Vdd, CL = 15 pF			
Start up Time 10 ms	Vaa, OL - 10 pi			
	2 kHz – 20 MHz			
Phase Noise (Typical) 10 Hz 100 Hz 1 kHz 10 kHz 100 kHz Offset from				
@ 26 MHz -65 -95 -115 -130 -140 dBc/Hz				
Mechanical Shock Per MIL-STD-202 Method 213 Condition C (100 d's 6 mS duration ½ sinewaye)				
Vibration   Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)				
Hermeticity Per MIL-STD-202, Method 112, (1x10-8 atm. cc/s of Helium)				
Thermal Cycle Per MIL-STD-883, Method 1010, Condition B (-55°C to +125°C, 15 min. dwell, 10 cycles)				
Solderability Per EIAJ-STD-002				
Soldering Conditions +240°C max. for 10 secs.				

MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.



## MtronPTI Lead Free Solder Profile

