



FREQUENCY STABILITY	
OVER:	
OPERATING TEMP. RANGE :	<i>see note 1</i>
LONG TERM AGING 1ST YEAR:	< ±0.7 ppm *
10 YEARS:	< ±4.0 ppm *
SUPPLY VOLTAGE ± 0.2 V	< ±0.1 ppm *
LOAD ±10%:	< ±0.01 ppm
POWER SUPPLY	
SUPPLY INPUT:	V _{cc} = 5 V ±0.2 V *
INPUT CURRENT :	< 70 mA @ +30 °C *
INPUT CURRENT :	< 110 mA @ -20 °C *
FREQUENCY CONTROL RANGE	
CONTROL VOLTAGE:	<i>see note 2</i>
FREQUENCY DEVIATION:	> ±4 ppm *
RESPONSE SLOPE:	positive
OUTPUT	
OUTPUT SIGNAL:	Sine wave
HARMONICS:	-10 dBc *
SPURIOUS:	-70 dBc *
OUTPUT IMPEDANCE:	50Ω
LEVEL / LOAD:	> 2V _{pp} < 4V _{pp} with 1kΩ // 5pF > 1V _{pp} < 2V _{pp} with 50Ω
ENVIRONMENT	
OPERABLE TEMP. RANGE:	-40 to +85 °C
STORAGE TEMP. RANGE:	-65 to +125 °C
VIBRATION:	10 to 2000 Hz / 10 g
SHOCK:	2000 g, 0.3 ms, ½ sine
PACKAGE:	DIL 14, 4 pins, GND to case
PACKAGE HEIGHT:	8 mm (packaging info)
WARM-UP	
ΔF/F:	within spec after 30s @ 0 °C *
CURRENT:	< 250 mA during 10s
MISCELLANEOUS	
SHORT TERM STABILITY:	< 5 E-10 0.1 s to 30 s Typical 5 E-11 @ 1 s
PHASE NOISE (BW = 1Hz):	1 Hz : -80 dBc / Hz (typical, @ 10MHz in static conditions) 10 Hz : -110 dBc / Hz 100 Hz : -135 dBc / Hz 1 kHz : -145 dBc / Hz
* Customer's specification on request	

NOTE 1	
TEMP. RANGE *	OCXOVS-AR1, AV5 0 to +60 °C
STABILITY *	±0.075 ppm (0.15 ppm peak to peak)
TEMP. RANGE *	OCXOVS-BR1, BV5 -20 to +70 °C
STABILITY *	±0.15 ppm (0.3 ppm peak to peak)
TEMP. RANGE *	OCXOVS-CR1, CV5 -40 to +85 °C
STABILITY *	±0.25 ppm (0.5 ppm peak to peak)

NOTE 2	
ADJUSTMENT WITH RESISTOR (connected to ground)	OCXOVS-AR1, BR1, CR1 0 to 10 kΩ
INPUT IMPEDANCE	> -4.7 kΩ
ADJUSTMENT WITH VOLTAGE	OCXOVS-AV5, BV5, CV5 0.5 to 5 V
INPUT IMPEDANCE	> 47 kΩ

MARKING EXAMPLE			
			
OCXOVS-BV5		Type	Spec No.
20.000 MHz	01.25	Frequency	Date Code
○	12	○ (PIN 1)	Piece No.

ORDERING INFORMATION EXAMPLE			
O C X O V S - B V 5 20 MHz x x x			
Oscillator Type	OCXO = oven controlled Crystal Oscillator		N° of customer spec.
Oscillator Version	V = low power voltage 5V S = sine wave		Oscillator output frequency
Temperature Range	A = 0 to +60°C; +/-0.075ppm B = -20 to +70°C; +/-0.15ppm C = -40 to +85°C; +/-0.25ppm X = custom spec.		Frequency Adjustment
		R1 = external resistor V5 = voltage 5V Y = custom spec.	

STANDARD FREQUENCIES (MHz)					
10.0000	12.8000	16.0000	16.3840	19.4400	20.0000

DATE:	June 2003	Revision No.: 8
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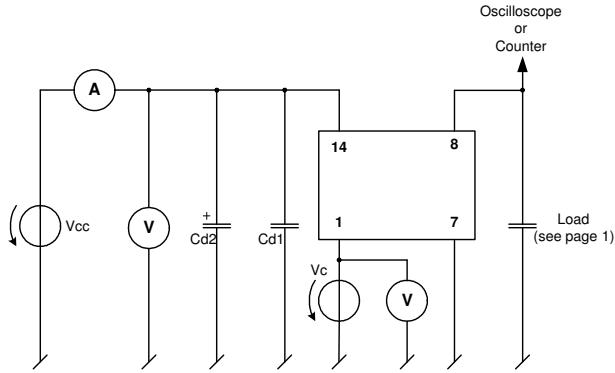
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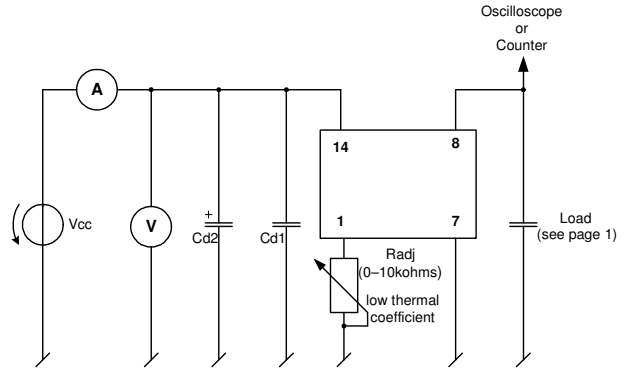
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Application and Test Circuit:

Adjustment with voltage



Adjustment with resistor



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