

Sine Wave Output Power Supply

up to 54 MHz

FREQUENCY STABILITY

OVER:

OPERATING TEMP. RANGE: see note 1 LONG TERM AGING 1ST YEAR: $< \pm 0.7 ppm^*$

10 YEARS: < ±4.0 ppm * **SUPPLY VOLTAGE ± 0.2 V** < ±0.1 ppm *

LOAD ±10%: < ±0.01 ppm

POWER SUPPLY

SUPPLY INPUT: Vcc = 5 V ±0.2 V * **INPUT CURRENT:** < 80 mA @ +30 ℃* **INPUT CURRENT:** < 120 mA @ -20 ℃*

FREQUENCY CONTROL RANGE

CONTROL VOLTAGE: see note 2 FREQUENCY DEVIATION: > ±4 ppm 3 **RESPONSE SLOPE:** positive

OUTPUT

OUTPUT SIGNAL: Sine wave HARMONICS: -10 dBc ' SPURIOUS: -70 dBc * **OUTPUT IMPEDANCE:** 50Ω \leq 20MHz \geq 4 dBm / 50 Ω LEVEL / LOAD:

 $> 20MHz \ge 0 dBm / 50\Omega$

ENVIRONMENT

OPERABLE TEMP. RANGE: -40 to +85 ℃ STORAGE TEMP. RANGE: -65 to +125 ℃ VIBRATION: 10 to 2000 Hz / 10 g SHOCK: 2000 g, 0.3 ms, 1/2 sine PACKAGE: DIL 14, 4 pins, GND to case **PACKAGE HEIGHT:**

8 mm (packaging info)

WARM-UP

within spec after 30s @ 0 ℃ *

CURRENT: < 250 mA during 10s

MISCELLANEOUS

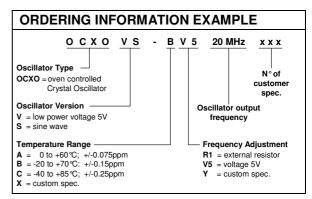
SHORT TERM STABILITY: < 5 E-10 0.1 s to 30 s Typical 5 E-11 @ 1 s ,, 10 Hz: -110 dBc/Hz PHASE NOISE (BW = 1Hz): (typical, @ 10MHz in static 100 Hz: -135 dBc / Hz conditions) 1 KHz: -145 dBc / Hz 10 KHz: -150 dBc / Hz

Customer's specification on request

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

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

MARKING EX			
Micro Crystal		Micro Crystal	
OCXOVS-BV5 20.000 MHz O	09.25 12	Type Frequency O (PIN 1)	Spec No. Date Code Piece No.



Internet www.microcrystal.ch

Fmail

sales@microcrystal.ch

STANDARD	FREQUENCIES (M	Hz)			
10.0000	12.8000	16.0000	16.3840	19.4400	20.0000
40.0000	50.0000	52.0000	_	_	_

	DATE:	October 2009	Revision No.: 9
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In accordance with our policy of continuous development and improvement, we reserve the right to modify the design or the specifications of our products without prior notice.

> Headquarters: Micro Crystal AG Tel. +41 32 655 82 82 Mühlestrasse 14 Fax +41 32 655 80 90

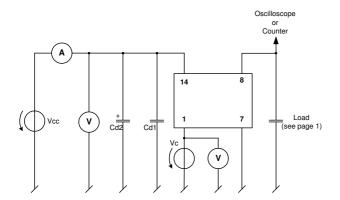
A COMPANY OF THE **SWATCH GROUP**

CH-2540 Grenchen Switzerland

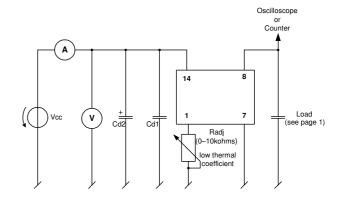


Application and Test Circuit:

Adjustment with voltage



Adjustment with resistor



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Headquarters: Micro Crystal AG

Mühlestrasse 14 CH-2540 Grenchen Switzerland Tel. Fax Internet v
Email S

+41 32 655 82 82 +41 32 655 80 90 www.microcrystal.ch sales@microcrystal.ch