

SCOCXOVS Ultra Tight Stability Sine Wave Output 5 V Power Supply up to 54 MHz

FREQUENCY STABILITY		NOTE 1	
	<b>see note 1</b> < ±0.3 ppm * < ±2.5 ppm *	TEMP. RANGE * STABILITY *	<u>SCOCXOVS-AR1, AV5</u> 0 to +60 ℃ ±0.025 ppm (0.05 ppm peak to peak)
	< ± 0.025 ppm < ± 0.1 ppm < ±0.01 ppm	TEMP. RANGE * STABILITY *	<u>SCOCXOVS-BR1, BV5</u> -20 to +70 ℃ ±0.05 ppm (0.1 ppm peak to peak)
POWER SUPPLY SUPPLY INPUT: INPUT CURRENT : INPUT CURRENT :	Vcc = 5 V ±0.2 V* < 80 mA @ +30 ℃* < 120 mA @ -20 ℃*	TEMP. RANGE * STABILITY *	SCOCXOVS-CR1, CV5 -40 to +85 ℃ ±0.1 ppm (0.2 ppm peak to peak)
FREQUENCY CONTROL RAN		NOTE 2	
CONTROL VOLTAGE: FREQUENCY DEVIATION: RESPONSE SLOPE:	<i>see note 2</i> > ±2.5 ppm * positive	ADJUSTMENT WITH RESISTOR	SCOCXOVS-AR1, BR1, CR 0 to 10 kΩ
	Sine wave -10 dBc * -70 dBc * 50Ω ≥ 4 dBm / 50Ω ≥ 0 dBm / 50Ω	(connected to ground) INPUT IMPEDANCE ADJUSTMENT WITH VOLTAGE INPUT IMPEDANCE	> -4.7 kΩ <u>SCOCXOVS-AV5, BV5, CV5</u> 0.5 to 5 V > 47 kΩ
ENVIRONMENT OPERABLE TEMP. RANGE:	-40 to +85 ℃	MARKING EXAMPLE	
STORAGE TEMP. RANGE: VIBRATION: SHOCK: PACKAGE: PACKAGE HEIGHT:	-65 to +125 ℃ 10 to 2000 Hz / 10 g 2000 g, 0.3 ms, ½ sine DIL 14, 4 pins, GND to case 8 mm (packaging info)	Micro Crystal   SCOCXOVS-BV5   20.000 MHz 09.25   O 12	Micro Crystal   Type Spec No.   Frequency Date Code   O (PIN 1) Piece No.
	(pacitaging inter	ORDERING INFORMA	TION EXAMPLE
ΔF/F: CURRENT:	within spec after 30s @ 0 $^\circ C$ * < 250 mA during 10s	SCOCXO VS	- <u>B V 5 20 MHz x x x</u>
MISCELLANEOUS SHORT TERM STABILITY:	< 5 E-10 0.1 s to 30 s Typical 5 E-11 @ 1 s	SCOCXO = Low g sensitivity Oven Controlled Crystal Oscillator Oscillator Version V = low power voltage 5V	Customer spec. Oscillator output frequency
PHASE NOISE (BW = 1Hz): (typical, @ 10MHz in static conditions)	10 Hz: -110 dBc / Hz 100 Hz: -135 dBc / Hz 1 KHz: -145 dBc / Hz 10 KHz: -150 dBc / Hz	S = sine wave Temperature Range A = 0 to +60 °C; +/-0.025ppm B = -20 to +70 °C: +/-0.05ppm C = -40 to +85 °C; +/-0.1ppm	Frequency Adjustment R1 = external resistor V5 = voltage 5V Y = cutsom spec.
* Customer's specification on red	quest	X = custom spec.	

STANDARD FREQUENCIES (MHz)							
10.0000	12.8000	16.0000	16.3840	19.4400	20.0000		
40.0000	50.0000	52.0000					

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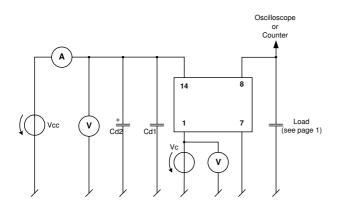


SCOCXOVS Ultra Tight Stability

up to 54 MHz

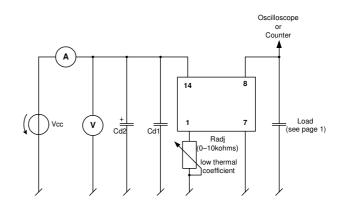
## Application and Test Circuit:

## Adjustment with voltage



Adjustment with resistor

Sine Wave Output 5 V Power Supply



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