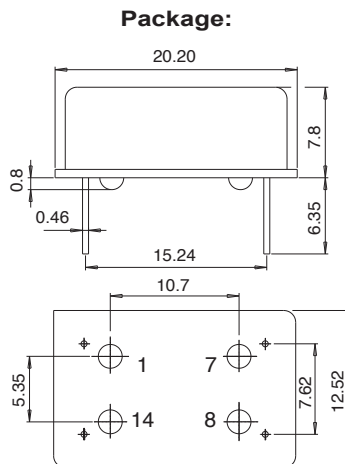


RoHsCompliant:

DIMENSIONS



Pin out

Pin 1 = Voltage control
Pin 7 = Gnd
Pin 8 = Fout
Pin 14 = Vdd

All dimensions in mm typical

Oven control quartz crystal oscillator
Fundamental mode frequency
High shock and vibration resistance
Wide temperature range
Low aging
Customer specification on request
Very fast warm up
Low power consumption
Swiss made quality

DESCRIPTION:

This DIL 14 package has been specially designed for the applications:

- Digital switching
- Telecom transmission
- Sonet / SDH / DWDM / FDM/36 / WIMAX
- Airbone equipments
- Battery operated systems
- Instrumentation
- Radio Transceiver

The OCXO are supplied on trays (50 pcs/tray).

ELECTRICAL CHARACTERISTICS AT 25°C

Frequency versus temperature A: 0 to +60°C B: -20 to +70°C C: -40 to +85°C	ΔF/F	see table 1 (without air flow)			
Frequency long term aging 1) long term aging 10 years long term aging 1 st year	ΔF/F	< ± 2.5 ≤ ± 0.3			ppm
Frequency control range	Vc	≥ ± 2.5 (see table 3)			ppm
Supply voltage	Vdd	3.3 / 5 / 12			V
Input current	Idd	see table 2			
Output signal sine wave		see table 4			
Start-up time	t	<5			ms
Frequency stability versus load ± 5%	ΔF/F	≤ ± 10			ppb
Warm-up within ± 0.1 ppm at 25°C	Vdd	3.3	5	12	V
	t	≤ 120	≤ 60	≤ 30	s
Stability versus Vdd	ΔF/F	< ± 0.1			ppm
Short term stability 0.1 to 30s 5E-11 typ at 1s	Tau	< 5			E-10
Phase noise typical at 10 MHz Static conditions BW = 1Hz 10Hz 100Hz 1 kHz 10 kHz		3.3V / 5V		12V	dBc/ Hz
		-110		-100	
		-135		-130	
		-145		-140	
		-150		-145	

1) $\leq \pm 1$ E-9 / day after 30 days operating

TABLE 1: Vdd = 3.3V

Operating Temperature range	Vdd = 3.3V ± 0.15V
A = 0 to +60°C	≤ ± 50 ppb
B = -20 to +70°C	≤ ± 75 ppb
C = -40 to +85°C	≤ ± 100 ppb

TABLE 1: Vdd = 5V

Operating Temperature range	Vdd = 5V ± 0.2V
A = 0 to +60°C	≤ ± 25 ppb
B = -20 to +70°C	≤ ± 50 ppb
C = -40 to +85°C	≤ ± 100 ppb

TABLE 1: Vdd = 12V

Operating Temperature range	Vdd = 12V ± 0.5V
A = 0 to +60°C	≤ ± 25 ppb
B = -20 to +70°C	≤ ± 50 ppb
C = -40 to +85°C	≤ ± 100 ppb

TABLE 2: Idd

Temperature	Vdd = 3.3V	Vdd = 5V	Vdd = 12V
+25°C	120 mA	80 mA	50 mA
-20°C	170 mA	110 mA	80 mA
start-up current at 25°C ≤ 250mA duration	30s	10s	10s

TABLE 3: VC

Frequency control adjustment response slope positive	Vdd = 3.3V	Vdd = 5V	Vdd = 12V
Voltage control input impedance > 47kΩ	0 to 3.3V	0.5 to 5V	0.5 to 5V
Resistor control R connect pin 1 to ground (Input impedance > -4,7kΩ)	0 to 10kΩ	0 to 10kΩ	0 to 10kΩ

TABLE 4: OUTPUT SIGNAL

Vdd	3.3V	5V	12V
Load	50Ω	50Ω	1kΩ // 5pf
Level ≤20MHz	≥ 4dBm	≥ 4dBm	>1Vpp
Level >20MHz	≥ 0dBm	≥ 0dBm	>1Vpp
Harmonics	-10dBc	-10dBc	-10dBc
Spurious	-70dBc	-70dBc	-70dBc

STANDARD FREQUENCIES:

Frequency «MHz»						
10	12	12.8	14.7456	16	20	26
40	52	54				
Other frequencies from 10 kHz up to 54 MHz on request						

**ENVIRONMENTAL
CHARACTERISTICS:**

Storage temp. range	-65 to +125°C
Vibration resistance	10 to 2000Hz / 20g
Shocks resistance	5000g / 0.3ms / ½ sine

**TERMINATIONS AND
PROCESSING:**

pins soldering	+235°C / 10s max
Package SMD version option D1 or D2 see application notes	Dil 14.4 pins GND to case height = 8mm

**PRODUCT DESCRIPTION AND
ORDERING INFORMATION:**

SCOCXOV S - C V5 20MHz XXX

W = Vdd 3.3V
V = Vdd 5V
blank = Vdd 12V

S = Sine wave

A = 0 to 60°C
B = -20 to 70°C
C = -40 to 85°C
X = custom

R1 = R = 0 to 10kΩ
V3 = Vc = 0 to 3.3V
V5 = Vc = 0.5 to 5V
Y = custom

Frequency

customer spec N°

A unique part number will be generated for each product specification, i.e:
20xxxx-EA00 (in ESD plastic tray)
Please contact us.

All specifications subject to change without notice.



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