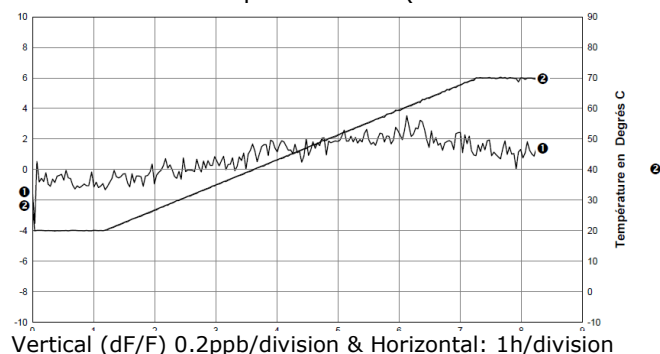


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- 1- Nominal frequency (Fo) : 10.0 MHz
Initial tolerance after shipment (after frequency recovery) : Fo ± 5E-7
- 2-Power Supply Voltage supply : + 3.3 V ± 5 %
2.1- Power consumption @ warm-up time : ≤ 3.5 W
2.2- Current in steady state +25°C : ≤ 1.5 W
- 3- Output signal into 15pF load (rating up to 3 loads, Cl = 15 pF) : HCMOS compatible
3.1- Output levels : Voh ≥ +2.4V / Vol ≤ +0.4 V
3.2- Duty cycle @ 50% output signal : 50 ± 10%
3.3- Rise - Fall times (from 10 to 90% output signal) : ≤ 5 ns 15pF load)
3.4- Phase noise (in dBc/Hz) @ 1 Hz offset : - 95 typical
@ 10 Hz : - 125 typ.
@ 100 Hz : - 140 typ.
@ 1kHz : - 150 typ.
@ 10 kHz & over : - 155 typ.
- 4- Frequency stability over operating conditions – all causes inclusive,
Total free-run accuracy (Telcordia GR-1244 requirement: ± 4.6 ppm) : **≤ ± 1.5 E-6 over lifetime**
after frequency recovery :
required time of continuous operation so as to re-stabilize the device after powered-off / storage period)
- 4.1-ageing – stability versus time (measured before shipment) : ≤ ± 3E-10 per day
Frequency drift based on extrapolation for 1 year / 20 years : ≤ ± 5E-8 / ≤ ± 5E-7
- 4.2- Drift 24 hours with ± 2.8°C (per Telcordia GR-1244) : ≤ ± 5E-10
- 4.3- Short term 1s integration time – 100 samples : 5 E-12 typical
- 4.4- Stability over operating temperature from **-10°C to +70°C** calm air : ≤ 1 E-9 peak to peak
over operable temperature from -40°C to +85°C : ≤ 2 E-9 peak to peak
- 4.5- versus power supply voltage (± 5%) : ≤ ± 5 E-10
- 4.6- Warm-up time @ +25°C to within ± 1E-7 of frequency reference : ≤ 5mn (2mn typ.)
(with frequency reference = frequency reached by the device after 24h on)
- 4.7- Holdover performance (with 50°C variation & gradient of 10°C/hour max) : ≤ 10µs / 8 hours



5- Environmental conditions (not operating – qualification)

- 5.1- Vibration 10g; 10- 500 Hz
5.2- Shocks 50g – 11ms –1/2 sine
5.3- Storage temperature range

IEC 68-2-6 test Fc severity 500/10
IEC 68-2-27 test Ea severity 50A
from - 50°C / + 90°C

6-Marking / Printed label on top of lid (possible to print Customer's Logo)

- Part Number ("LF" means "RoHS")
Nominal Frequency
Serial Number (1 Letter + 5 Numerals) & Date-Code (4 Digits YyWw)

RAKON
STP 3268 LF
10.0 MHz
SN: L Nnnnn DC: YyWw

Tape & Reel Packaging: compliant to standard EIA 481-3

rakon

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95105 ARGENTEUIL CEDEX - FRANCE

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OCXO SPECIFICATION

Reference

STP 3268 LF

Page

Date

2016
March 14th

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Visa

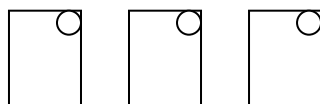
Joseph
Gouloumet
&
Philippe
Bunel

RoHS 6/6 SMD OCXO / ROX-2522-S3 @ 10.0 MHz _ 3.3V SUPPLY

OPERABLE FROM -40°C UP TO +85°C _ 12.5 MM HIGH MAX

Compliant to STRATUM 3E per GR-1244-CORE

ARG NPE 2016-5876



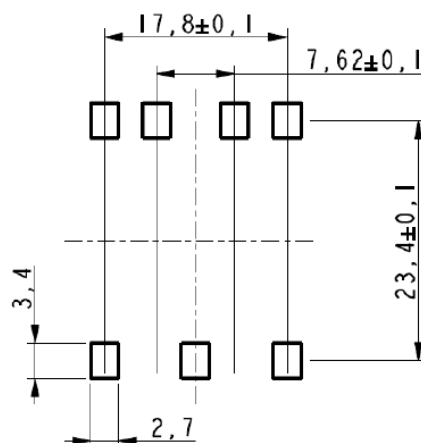
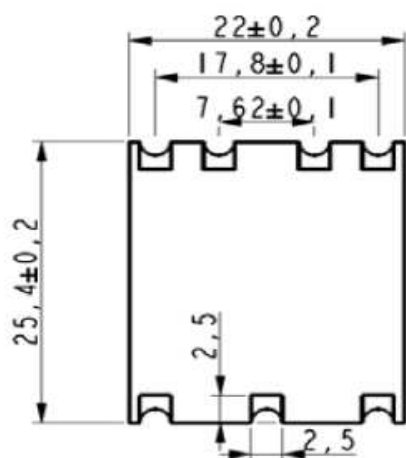
User direction of feed

P1	W	Quantity per reel	Diameter
28	44	200	330 mm



1	Not to be connected
2	Not to be connected
3	Supply voltage
4	RF Output signal
5	Not to be connected
6	Not to be connected
7	Ground (Mechanical & Supply)

PAD LAY OUT



 44 avenue de la Glacière - BP 165 95105 ARGENTEUIL CEDEX - FRANCE Tel. : +33 (0) 1 3998 3600 E_mail : Firstname.Surname@rakon.com Fax : +33 (0) 1 3998 3660	OCXO SPECIFICATION	Reference	Page	3/3
		STP 3268 LF	Date	Visa
			2016 March 14 th	Joseph Gouloumet & Philippe Bunel
RoHS 6/6 SMD OCXO / ROX-2522-S3 @ 10.0 MHz _ 3.3V SUPPLY OPERABLE FROM -40°C UP TO +85°C _ 12.5 MM HIGH MAX Compliant to STRATUM 3E per GR-1244-CORE			ARG NPE 2016-5876	

Outline Drawing (maximum overall height of 12.5mm)

Temperature Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate ($T_{s_{max}}$ to T_p)	3°C/second max.
Preheat - Temperature Min ($T_{s_{min}}$) - Temperature Max ($T_{s_{max}}$) - Time (t_{smin} to $T_{s_{max}}$)	150 °C 200 °C 60-1 80 seconds
Time maintained above: - Temperature (T_L) - Time (t_L)	217 °C 60-1 50 seconds
Peak/Classification Temperature (T_p)	245°C
Time within 5 °C of actual Peak Temperature(t_p)	20-40 seconds
Ramp-Down Rate	6 °C/second max.
Time 25 °C to Peak Temperature	8 minutes max.

