

EWOS10/20

ULTRA-LOW POWER OCXO FOR MIL/AERO/GENERAL INDUSTRY

PRODUCT OVERVIEW

EWOS10/20 is the least power consuming OCXO within Syrlinks products range. Widely used in aeronautic, defense or general industry applications, it shows a record low power consumption of 75 mW at 25°C. Powered with 5V, it is available in standard frequencies at 10 or 20 MHz with an operating temperatures up to 70°C or 85°C. Its high compactness and low power makes it ideal for high compacity battery powered systems requiring precision timing. EWOS10/20 can be disciplined thanks to its tuning pin and is highly resistant to shocks and vibrations.



KEY FEATURES

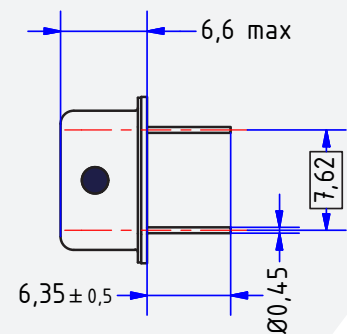
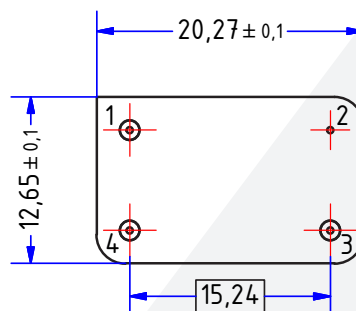
- 10 or 20 MHz clipped sine output
- ±100 ppb thermal sensitivity (typ., ordering Code B)
- 75 mW @ 25°C (typ.)
- ±2 ppb/day after 30 days (typ.)

i ORDERING INFORMATION IS AVAILABLE ON THE LAST PAGE

DIMENSIONS & PIN-OUT

PIN	FUNCTION
1	Frequency control
2	Ground
3	Power supply
4	RF Out
5	Power Supply

BOTTOM VIEW



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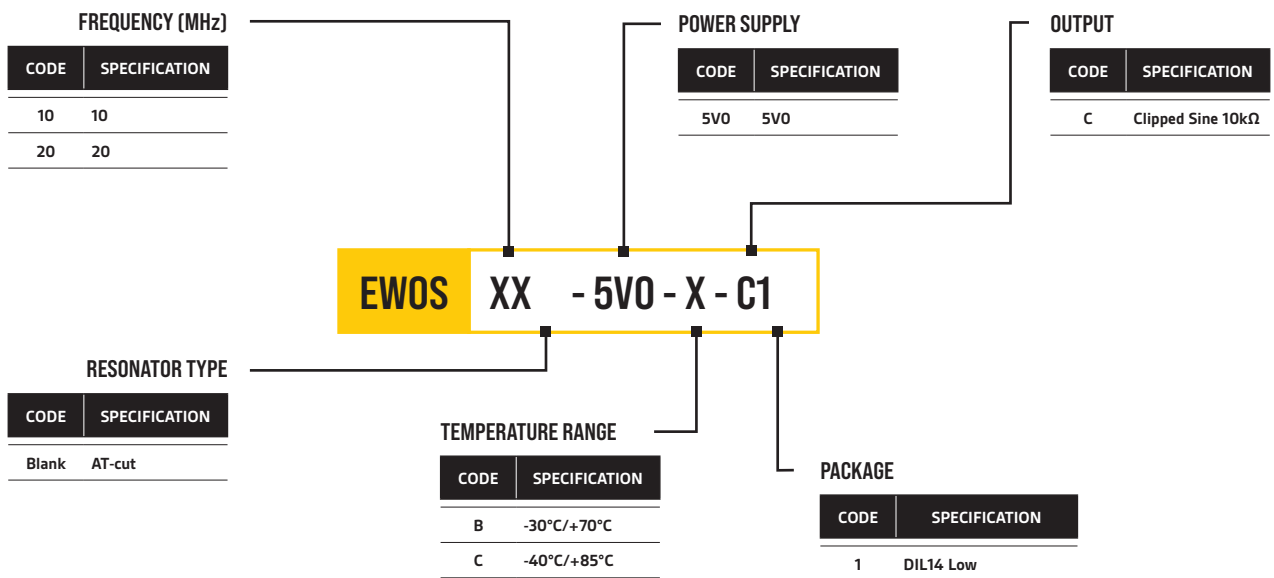
ENVIRONMENTAL CONDITIONS

Shocks	1500G peak / 0.5 ms / 3 axis ; MIL-STD-883 method 2002, Test Condition B
Vibrations	16.91 Grms / 10 to 2000 Hz Random / 3 min per axis, MIL STD 202-214 cond E
Soldering instructions	Hand soldering with recommended pins temperature: 235°C ±5°C, t=10s ±05s (260°C max for 5s max) Selective wave soldering with limitation of pre-heating to reach the max temperature of 85°C (body of component) and 3 s max at max temperature Use of no-clean solder paste When connecting a pad to a copper plane, thermal pads are recommended
Mounting instructions	Metallic case glued onto the PCB, without glue overflow into the metallized holes No spacer material between OCXO and PCB
PCB cleaning/washing	Washable with a temperature below 85°C

OCXO HERMETICITY

Metallic housing hermetically sealed
Fine Leaks and Gross Leaks tests performed 100%

ORDERING INFORMATION



EWOS10/20 V1.1 | Updated on 2nd June 2022 | This document is the property of SLX Timing. Information contained is not contractual & is susceptible to modifications without advance notice.