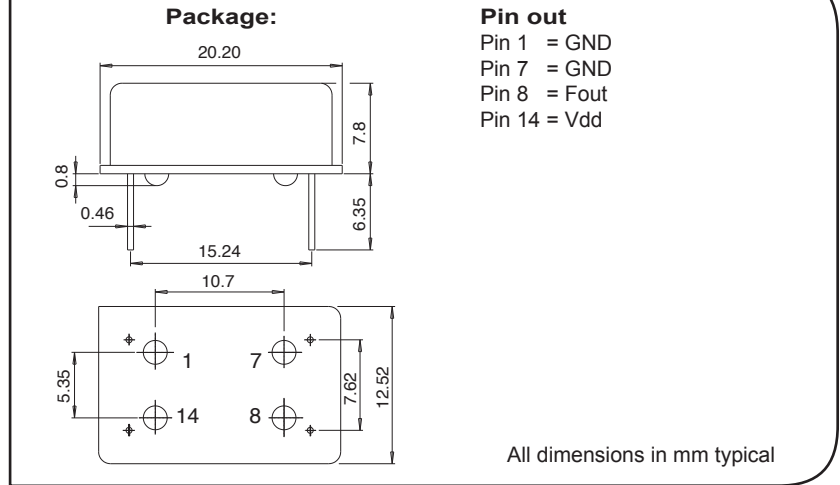




DIMENSIONS



Oven control quartz crystal oscillator
Fundamental mode frequency
High shock and vibration resistance
Wide temperature range
Low aging (sealed under vacuum)
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:
- Cospas-Sarsat
- Airbone equipments

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

ELECTRICAL CHARACTERISTICS AT 25°C

Frequency versus temperature -40 to +55°C after 15mm switch on and ramp of +5°C / h	$\Delta F/F$	$< \pm 3E-9 / 50s$	
Frequency long term aging included: calibration 10 years aging	$\Delta F/F$	$< \pm 4.5$	ppm
Frequency calibration (pin 1 to GND)	$\Delta F/F$	$\leq \pm 1$	ppm
Supply voltage	Vdd	5	V
Input current	Idd	see table 1	
Output signal		sine wave	
Level		$> 1V$ peak to peak	
Start-up time		< 5	ms
Load min / max		5/15	pF
Frequency stability versus load $\pm 10\%$	$\Delta F/F$	$\leq \pm 10$	ppb
Warm-up within ± 0.1 ppm at +25°C	t	≤ 60	s
Stability versus Vdd	$\Delta F/F$	$\leq \pm 0.1$	ppm
Stability 0.1 to 30s 5E-11 typ at 1s	Tau	< 5	E-10
Phase noise typical at 10 MHz In static conditions BW = 1Hz			dBc/Hz
10Hz		-100	
100Hz		-130	
1 kHz		-140	
10 kHz		-145	

TABLE 1: Idd

Temperature	Vdd = 5V ± 0.2V
+25°C -20°C	40 mA 70 mA
start-up current at -40°C max during 10s	350 mA

STANDARD FREQUENCIES:

Frequency «MHz»		
5.075350	5.075312	10.150625
10.1500700	12.688281	12.688375
Other frequencies between up to 54 MHz on request		

ENVIRONMENTAL CHARACTERISTICS:

Storage temp. range	-55 to +125°C
Vibration resistance	10 to 2000Hz / 20g
Shocks resistance	500g / 4ms / ½ sine 6 directions 100g / 23ms / ½ sine 6 directions

TERMINATIONS AND PROCESSING:

Thermal Shocks	25 cycles -55 to 85°C
Life test	1000 hours
Warm storage aging	1000 hours
Pins soldering	+235°C / 10s max +260°C / 5s max
Package SMD version option D1 or D2 see application note	Dil 14.4 pins GND to case height = 8mm

PRODUCT DESCRIPTION AND ORDERING INFORMATION:

OCXOVT-SAR 10.150700MHz XXX

customer spec N°

Frequency _____

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



Micro Crystal AG
Mühlestrasse 14
CH-2540 Grenchen
Switzerland

Tel. +41 32 655 82 82
Fax +41 32 655 80 90
sales@microcrystal.com
www.microcrystal.com