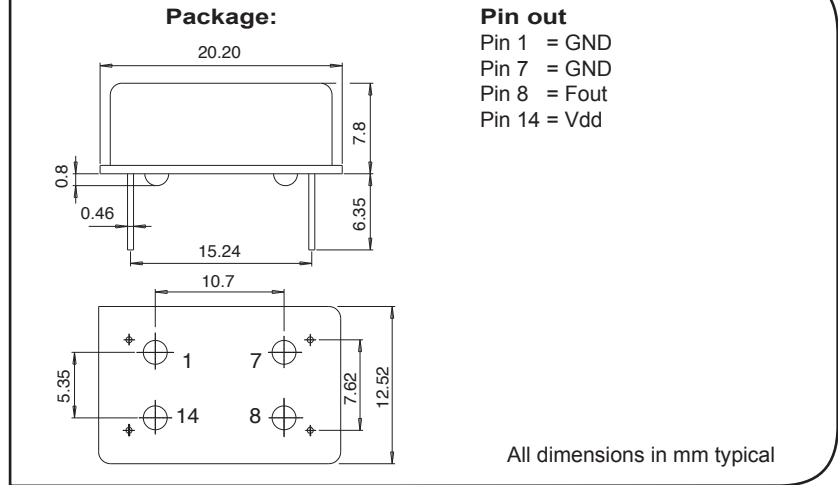




DIMENSIONS



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)	$\Delta F/F$	≤ 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	5000g / 0.3ms / ½ sine

TERMINATIONS AND PROCESSING:

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

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.



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