

# SMD OCXO ultra miniature 9.7 x 7.5 OU-21



FEATURES
10 or 20 MHz HCMOS
APPLICATIONS
Datacoms

## Electrical Parameters

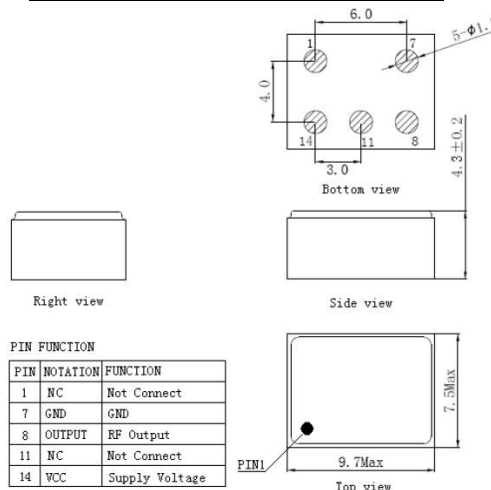
Parameters	Conditions	OU-21
Frequency Range		10 or 20 MHz
Output Waveform	15pF	HCMOS
Output Low Voltage / High Voltage	3.3V 15pF	$\leq 0.4V \geq 2.4V$
Duty cycle	At $\frac{1}{2} V_{DD}$	45/55%
Power Supply Voltage		+3.3V $\pm 5\%$
Steady Consumption	At 25°C	$\leq 200$ mA
Warm up current		$\leq 500$ mA
Frequency Calibration	At 25°C	$\leq \pm 500$ ppb
Frequency Stability	Over $T_{OPR}$	$\leq \pm 20$ ppb
Stability vs. power change	$V_{DD} \pm 5\%$	$\leq \pm 10$ ppb
Stability vs. load change	15pF $\pm 5\%$	$\leq \pm 10$ ppb
Short-Term Stability: Allan Variance	At 25°C	$\leq 0.1$ ppb
Aging tolerance per day	At 25°C	$\leq \pm 5$ ppb
Aging (First Year)	At 25°C	$\leq \pm 1$ ppm
Operating Temperature Range		-30 ~ 75°C*
Storage Temperature Range		-55°C ~ 105°C
Phase Noise (typical)		-90 dBc / Hz @ 10Hz
		-115 dBc / Hz @ 100Hz
		-138 dBc / Hz @ 1KHz
		-150dBc / Hz @ 10KHz
		-150 dBc / Hz @ 100kHz
		-150 dBc / Hz @ 1MHz

## Ordering Code

Temperature Range	Code	Stability	Code	Internal Code	Internal Code	Option	Code
-30 + 75°C	N	$\pm 20$ ppb	V	0	0		
-40 + 85°C*	H						

\*-40 ~ 85°C please consult factory  
example: OU-21NV00 10MHz

## Mechanical Dimensions (mm)



SMD-OCXO

TYPE	OU-21	REVISION	01	CHECKED	PB	DATE	10/12/2015
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All specifications are subject to change without notice