

OCXO SERIES 2000

FEATURES

Miniature OCXO in standard 14-pin DIP package Fast warm up Frequencies up to 100 MHz





ELECTRICAL SPECIFICATIONS

PARAMETER	SYMBO L	CONDITION	VALUE		UNIT	
			Min.	Тур.	Max.	
Frequency Range*	fo		5.000		100.000	MHz
Supply Voltage	Vs	Vs ±5%	3.135	3.3	3.465	V
			4.75	5.0	5.25	
			11.40	12.0	12.60	
Power Consumption	Ps	Steady state, @ 25°C			0.7	W
	P _{S,w}	During warm-up ,@ 25°C			2.8	
Warm-up Time	t _W	Vs, Ta=+25°C, within ±100ppb of final frequency with reference after 1 hour on			5	min
Frequency Calibration	Δf/f ₀	Ta=+25°C, after 15mins power on ref. to nominal frequency	-200		+200	ppb
Frequency Stability vs. Temperature*	$\Delta f/f_0$ (T _a)	Measurement referenced to (fmax+fminy/2. See Table	-5		+5	ppb
Frequency Stability vs. Supply Voltage	$\Delta f/f_0$ (ΔV_{CC})	Ta=25°C, Vs±5%, load=15pF	-5		+5	ppb
Frequency Stability vs. Load Variation	$\Delta f/f_0 (\Delta I)$	Ta=25°C, Vs, load=15pF±5%	-5		+5	ppb
	$\Delta f/\Delta t_d$	Per day	-1		+1	ppb
Aging, after 30 days of operation	$\Delta f/\Delta t_y$	First year	-150		+150	ppb
	$\Delta f/\Delta t_y$	10 years	-1.2		+1.2	ppm
Operating Temperature Range*		See Table 1	-40		+85	°C
Storage Temperature	T _(stg)		-40		+105	°C
Short Term Stability		т=1s			0.05	ppb
Control Voltage Range	V _C		0	1.65	3.0	V
Frequency Tuning Range		V _C = 0V	-4		-2	ppm
		V _C = 1.65V	-200		+200	ppb
		V _C = 3.3V	+2		+4	ppm
Linearity			-10		+10	%







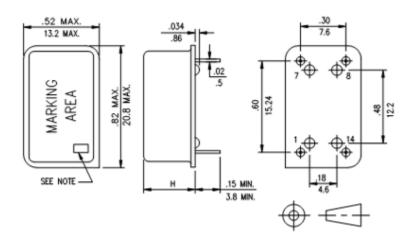


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ENVIRONMENTAL MECHANICAL CONDITIONS

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Storage temperature range	-55°C to +105°C	
Drop Test	The test shall be carried out as the provisions of the IEC60028-2-32 test Ed. 10cm height, 3 times on hard board with thickness of 3cm	
Bumping Test	Device are bumped to three mutually perpendicular axes at peak acceleration of 400m/s ² , each 4000±10times, 6ms pulse duration time	
Vibration Test	Frequency range: 1Hz-4Hz-100Hz-200Hz Acceleration: 0.0001g²/Hz-0.01g²/Hz-0.01g²/Hz-0.001g²/Hz Grms=1.15g Sweep time: 30 minutes (perpendicular axes each sweep time)	
Mechanical Shock	ck 100g, 6mS duration, 1/2 sine wave, 3 shocks each direction along 3 mutually perpendicular planes.	
Thermal shock	0.5h@ - 40℃, 0.5h@+85℃, Note: the changing time < 30 seconds, cycling for 100 times	

MECHANICAL DIMENSIONS AND PIN FUNCTIONING



PIN	SYMBOL	FUNCTION	
1	N/C or V _C	No connect or Control Voltage	
2	GND	Ground	
3	OUTPUT	RF Output	
4	Vs	Supply Voltage	