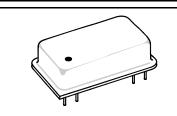


- · SAW Frequency Stabilization
- Fundamental-Mode Oscillation at 1000.0 MHz
- A Rugged, Compact General-Purpose Oscillator
- Complies with Directive 2002/95/EC (RoHS)

The frequency of this oscillator is stabilized by surface-acoustic-wave (SAW) technology. This results in excellent performance from a compact, rugged, oscillator operating at the fundamental frequency of 1000.0 MHz. The highly-reliable HO4001-1 makes it suitable for general purpose use in a wide variety of applications.

HO4001-1

1000.0 MHz SAW Oscillator



Dip 16-8 Case

Characteristic		Sym	Notes	Minimum	Typical	Maximum	Units	
Operating Frequency	Absolute Frequency	f _O			1000.0		MHz	
	Tune Range		1, 7	999.850		1000.150	MHz	
	Tune Voltage		1, 7	0		+5	VDC	
	Tuning Linearity				3:1	4:1		
RF Output Power		Po	3, 6	+7	+10		dBm	
Discrete Spurious	Second Harmonics		2, 3, 4			-15		
	Third and Higher Harmonics					-20	dBc	
	Nonharmonic				-80			
SSB Phase Noise	1 kHz Offset		2, 3, 4		-100	-95	dBc/Hz	
	10 kHz Offset				-130	-125		
	100kHz Offset				-150			
RF Impedance	Nominal Impedance	Z _O	3		50		Ω	
	Operating Load VSWR	GL	3, 5			2:1		
DC Power Supply	Operating Voltage	V _{CC}	- 3, 6	4.75	5.0	5.25	VDC	
	Operating Current	I _{CC}				45	mA	
Operating Ambient Temperature		T _A	3, 6	-20		+70	°C	
Lid Symbolization (YY=Year, WW=Week)			RFM HO4001-1 YYWW					



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

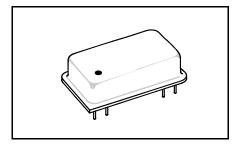
COCOM CAUTION: Approval by the U.S. Department of Commerce is required prior to export of this device.

Notes:

- 1. One or more of the following United States patents apply: 4,616,197; 4,610,681; and 4,761,616.
- 2. Unless noted otherwise, all specifications are listed at T_A = +25°C ±2°C, V_{CC} = nominal voltage ±0.01 VDC, and load impedance = 50 Ω with VSWR ≤ 1.5:1.
- 3. The design, manufacturing process, and specification of this device are subject to change without notice.
- 4. Applies to oscillator only and not to sidebands caused by external electrical or mechanical sources. (Dedicated external voltage regulation with low-frequency filtering for the DC power supply and proper circuit board layout are recommended for optimum spectral purity.)
- 5. For specified maximum operating load VSWR (any angle) at Fo. (No instability or damage will occur for any passive load impedance.)
- 6. For any combination of V_{CC} and T_A within the specified operating ranges.
- 7. Applies for any combination of Note 5 and 6 conditions.

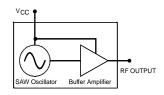
DIP16-8

Metal Dual-Inline Package with 8 leads in a 16-lead DIP configuration



Dimension	mm		Inches		
Dimension	MIN	MAX	MIN	MAX	
Α	_	25.02	_	0.985	
В	_	12.83	_	0.505	
С	_	6.35	_	0.250	
D	0.40	0.51	0.016	0.020	
E	0.64 Nominal		0.025 Nominal		
F	7.62 Nominal		0.300 Nominal		
G	2.54 Nominal		0.100 Nominal		
Н	17.78 Nominal		0.700 Nominal		
K	3,39	6.73	0.130	0.265	
L	1.30	_	0.051	_	
M	_	11.18	_	0.440	
N	_	22.60	_	0.890	
R	1.75	2.26	0.069	0.089	

BLOCK DIAGRAM



ELECTRICAL CONNECTIONS

