

Excellent Integrated System Limited

Stocking Distributor

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[Murata Electronics North America](#)
[HO4001-1](#)

For any questions, you can email us directly:

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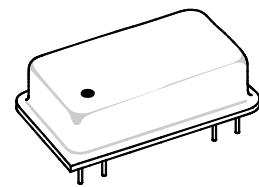


- **SAW Frequency Stabilization**
- **Fundamental-Mode Oscillation at 1000.0 MHz**
- **A Rugged, Compact General-Purpose Oscillator**
- **Complies with Directive 2002/95/EC (RoHS)**

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	f_O	1, 7		1000.0		MHz
			999.850		1000.150	MHz
			0		+5	VDC
				3:1	4:1	
RF Output Power	P_O	3, 6	+7	+10		dBm
Discrete Spurious	Second Harmonics	2, 3, 4			-15	dBc
	Third and Higher Harmonics				-20	
	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	G_L	3, 5		2:1	
DC Power Supply	Operating Voltage	V_{CC}	3, 6	4.75	5.0	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.

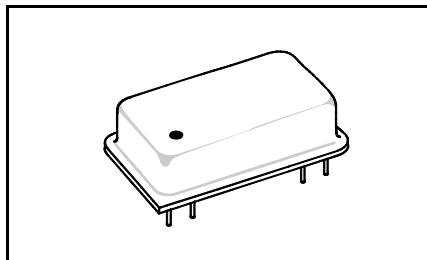
COCOM CAUTION: Approval by the U.S. Department of Commerce is required prior to export of this device.

Notes:

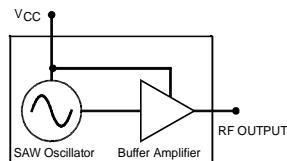
1. One or more of the following United States patents apply: 4,616,197; 4,610,681; and 4,761,616.
2. Unless noted otherwise, all specifications are listed at $T_A = +25^\circ\text{C} \pm 2^\circ\text{C}$, V_{CC} = nominal voltage ± 0.01 VDC, and load impedance = 50Ω with VSWR $\leq 1.5:1$.
3. The design, 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 F_O . (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

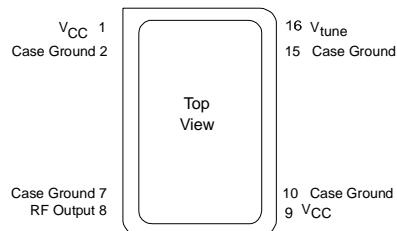


BLOCK DIAGRAM

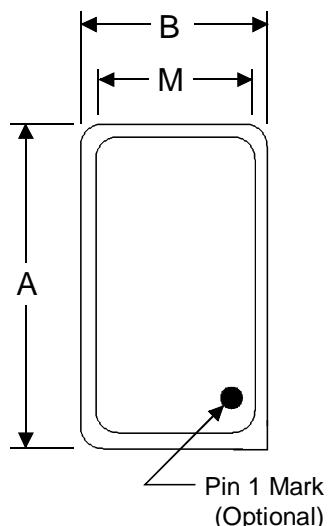


Dimension	mm		Inches	
	MIN	MAX	MIN	MAX
A	—	25.02	—	0.985
B	—	12.83	—	0.505
C	—	6.35	—	0.250
D	0.40	0.51	0.016	0.020
E	0.64 Nominal	—	0.025 Nominal	—
F	7.62 Nominal	—	0.300 Nominal	—
G	2.54 Nominal	—	0.100 Nominal	—
H	17.78 Nominal	—	0.700 Nominal	—
K	3.39	6.73	0.130	0.265
L	1.30	—	0.051	—
M	—	11.18	—	0.440
N	—	22.60	—	0.890
R	1.75	2.26	0.069	0.089

ELECTRICAL CONNECTIONS



Top View



Bottom View

