

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

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

For any questions, you can email us directly:

sales@integrated-circuit.com

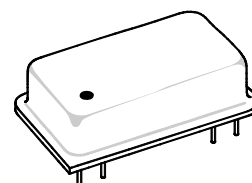


- **SAW Frequency Stabilization**
- **Fundamental-Mode Oscillation at 1000.0 MHz**
- **A Rugged, Compact General-Purpose Oscillator**
- **Complies with Directive 2002/95/EC (RoHS)**

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	1, 7		1000.0		MHz
	Tune Range			999.850		1000.150	MHz
	Tune Voltage			0		+5	VDC
	Tuning Linearity				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	5.25	VDC
	Operating Current	I_{CC}				45	mA
Operating Ambient Temperature		T_A	3, 6	-20		+70	$^{\circ}\text{C}$
Lid Symbolization (YY=Year, WW=Week)		RFM HO4001-1 YYWW					



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

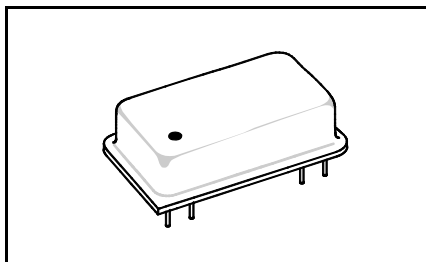
COCOM CAUTION: Approval by the U.S. Department of Commerce is required prior to export of this device.

Notes:

- One or more of the following United States patents apply: 4,616,197; 4,610,681; and 4,761,616.
- 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 $\leq 1.5:1$.
- The design, manufacturing process, and specification of this device are subject to change without notice.
- 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.)
- For specified maximum operating load VSWR (any angle) at F_O . (No instability or damage will occur for any passive load impedance.)
- For any combination of V_{CC} and T_A within the specified operating ranges.
- Applies for any combination of Note 5 and 6 conditions.

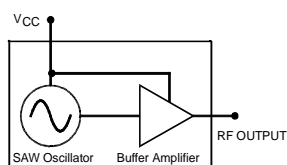
DIP16-8

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

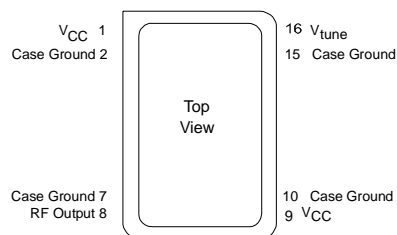


Dimension	mm		Inches	
	MIN	MAX	MIN	MAX
A	—	25.02	—	0.985
B	—	12.83	—	0.505
C	—	6.35	—	0.250
D	0.40	0.51	0.016	0.020
E	0.64 Nominal		0.025 Nominal	
F	7.62 Nominal		0.300 Nominal	
G	2.54 Nominal		0.100 Nominal	
H	17.78 Nominal		0.700 Nominal	
K	3.39	6.73	0.130	0.265
L	1.30	—	0.051	—
M	—	11.18	—	0.440
N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

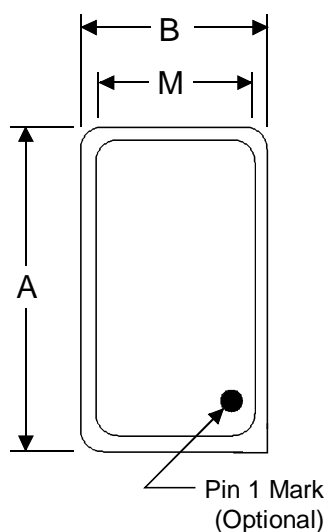
BLOCK DIAGRAM



ELECTRICAL CONNECTIONS



Top View



Bottom View

