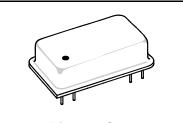


- SAW Frequency Stabilization
- Fundamental-Mode Oscillation at 750.0 MHz
- 0.8" x 0.5" x 0.25" Metal Dip Case

This general-purpose oscillator is stabilized by surface-acoustic-wave (SAW) technology. Fundamental oscillation at 750.0 MHz eliminates all internally generated spurious outputs except integral harmonics of 750.0 MHz. The compact size of the rugged, metal, hermetically-sealed case makes this oscillator suitable for a variety of applications.

### HO1301

## 750.0 MHz SAW Oscillator



#### Dip 14-8 Case

#### alaSneel4U.Com

#### **Absolute Maximum Ratings**

Ra	Value	Units		
DC Supply Voltage		0 to +13	VDC	
Ambient Temperature	Powered	-40 to +70	°C	
	Storage	-40 to +85		

#### **Electrical Characteristics**

Characteristic		Sym	Notes	Minimum	Typical	Maximum	Units
Operating Frequency	Absolute Frequency	f <sub>O</sub>	1, 7	749.750	750.0	750.250	MHz
	Tolerance from 750.0 MHz	$\Delta f_{O}$	1, 7			±250	kHz
RF Output Power		Po	3, 6	+7	+11	+13	dBm
Spurious Outputs	Second Harmonics					-15	
	Third and Higher Harmonics		3, 6, 7			-20	dBc
	Nonharmonic				<-80	-60	
RF Impedance	Nominal Impedance	Z <sub>O</sub>	3		50		Ω
	Operating Load VSWR	$G_L$	3, 5			1.5:1	
DC Power Supply	Operating Voltage	V <sub>CC</sub>	3, 6	7.9	8.4	8.9	VDC
	Operating Current	I <sub>CC</sub>	0, 0		30	40	mA
Operating Ambient Temperature		T <sub>A</sub>	3, 6	-20		+60	°C
Lid Symbolization (YY=Year, WW=Week)				RFM HO	01301 YYWW		

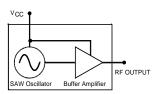
# W

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.

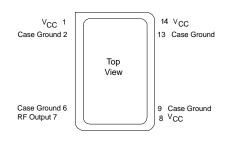
#### Notes:

- 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<sub>A</sub> = +25°C ±2°C, V<sub>CC</sub> = 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.
- 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<sub>O</sub>. (No instability or damage will occur for any passive load impedance.)
- 6. For any combination of V<sub>CC</sub> and T<sub>A</sub> within the specified operating ranges.
- 7. Applies for any combination of Note 5 and 6 conditions.

#### **BLOCK DIAGRAM**

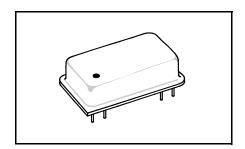


#### **ELECTRICAL CONNECTIONS**



**DIP14-8** Metal Dual-Inline Package with 8 leads in a 14-lead DIP configuration

ww.DataSheet4U.con



Dimension	mm		Inches		
	MIN	MAX	MIN	MAX	
Α	_	20.45	_	0.805	
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	15.24 Nominal		0.600 Nominal		
К	5.97	6.73	0.235	0.265	
L	1.30	_	0.051	-	
М		11.18		0.440	
N		18.80		0.740	
R	1.75	2.26	0.069	0.089	

