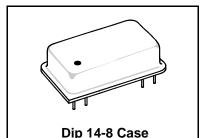


- SAW Frequency Stabilization
- Fundamental-Mode Oscillation at 400.0 MHz
- 0.8" x 0.5" x 0.25" Metal Dip Case

This general-purpose oscillator is stabilized by surface-acoustic-wave (SAW) technology. Fundamental oscillation at 400.0 MHz eliminates all internally generated spurious outputs except integral harmonics of 400.0 MHz. The compact size of the rugged, metal, hermetically-sealed case makes this oscillator suitable for a variety of applications.

# **HO1065**

# 400.0 MHz SAW Oscillator



JalaSHEEL4U.COIII

# **Absolute Maximum Ratings**

Rating	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	399.800	400	400.200	MHz
	Tolerance from 400.0 MHz	$\Delta f_{O}$	1, 7			±200	kHz
RF Output Power		Po	3, 6	+10	+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	$\Gamma_{L}$	3, 5			1.5:1	
DC Power Supply	Operating Voltage	$V_{CC}$	3, 6	10.8	12.0	13.2	VDC
	Operating Current	I <sub>CC</sub>	3, 0		40	50	mA
Operating Ambient Temperature		T <sub>A</sub>	3, 6	-40		+70	°C
Lid Symbolization (YY=Year, WW=Week)		RFM HO1065 YYWW					

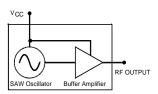


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. COCOM CAUTION: Approval by the U.S. Department of Commerce is required prior to export of this device.

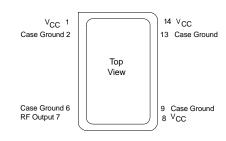
# Notes:

- 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<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 specifications 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**

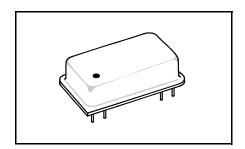


### **ELECTRICAL CONNECTIONS**



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

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Dimension	mm		Inches		
Dimension	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	

