C5300B1-0005

VCXO

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Typical Applications

Base Stations
Test Equipment
Telecom & Wireless Infrastructure
Digital Switching

Features

9X14 J Leaded Surface Mount Package
Reflow Process Compatible Optional
LVPECL
TRI-STATE

Operating Frequency **155.520 MHz**
Operating Temperature Range **-40° to 85°C**

Frequency stabilities

Parameter	Min	Typ	Max.	Units	Condition
Initial Accuracy	-50		+50	ppm	+25C

Supply voltage (Vs)

Parameter	Min	Typ	Max.	Units	Condition
Supply voltage	2.97	3.3	3.63	VDC	
Current consumption			100	mA	LVPECL No load

RF output

Parameter	Min	Typ	Max.	Units	Condition
Load			50	Ω	Into Vs-2V or Thevenin Equivalent
Signal Level (Vol)			Vs -1.62	VDC	
Signal Level (Voh)	Vs- 1.025			VDC	
Start-up Time			10	mS	
Rise and fall times			800	ps	Measured @ 10% to 90%
Duty cycle LVPECL	45		55	%	@ 50% Vdd

Frequency Tuning (EFC)

Parameter	Min	Typ	Max.	Units	Condition
Absolute Pull Range	-50		+50	ppm	All inclusive over operating temperature range of -40C to +85C and 15 year aging
Linearity			10	%	
Tuning Slope	Positive				
Control Voltage Range	0.3	1.65	3.0	VDC	with Vs=3.3VDC

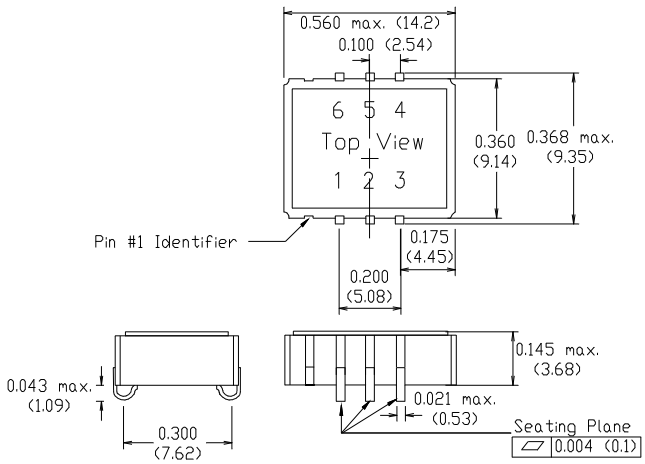
Additional parameters

Parameter	Min	Typ	Max.	Units	Condition
Output Enable	Logic "0" or floating input = Outputs enabled Logic "1" input = Outputs disabled (Tri-state)				
Weight			<2	g	
Processing & Packing	Handling & processing note				

Absolute Maximum Ratings

Parameter	Min	Typ	Max.	Units	Condition
Supply voltage (Vs)			7.0 7.0	V V	Vs=5.0VDC Vs=3.3VDC
Operable temperature range Storage temperature range	-55 -55		+85 +125	°C °C	

Enclosure



Pin Connections	
1	Control Voltage
2	Enable/Disable or NC
3	Ground (Case)
4	RF Output
5	Complementary Output
6	Supply Voltage

Notes:

1 Unless otherwise stated all values are valid after warm-up time and refer to typical conditions for supply voltage, frequency control voltage, load, temperature (25°C)