

2/2/2005 10:02:00 AM

## 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       | $\Omega$ | 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                                                                   |

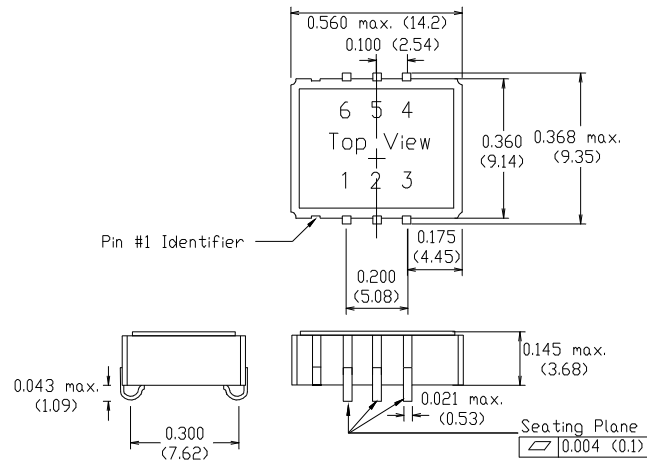
## Additional parameters

| Parameter            | Min                                                                                             | Typ | Max. | Units | Condition |
|----------------------|-------------------------------------------------------------------------------------------------|-----|------|-------|-----------|
| Output Enable        | Logic "0" or floating input = Outputs enabled<br>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  | V     | Vs=5.0VDC |
|                            |     |     | 7.0  | V     | Vs=3.3VDC |
| Operable temperature range | -55 |     | +85  | °C    |           |
| Storage temperature range  | -55 |     | +125 | °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)