

Typical Applications

*Cellular Base Stations
PCS Base Stations
Phase Locking
Test Equipment
Digital Switching
Radio in the Local Loop*

Features

*Standard Package
Wide Frequency Range*



Frequency Range

1 MHz – 85 MHz

Standard Frequency

26 MHz

Frequency Stabilities

vs. Operating temperature range	Operating temp range
	0....70°C
	-40.....85°C

Frequency tuning

Absolute pulling range (APR)	± 50 ppm
Voltage range	0.5 to +4.5Vdc
Pulling slope	Positive
Linearity	10 % max

Guaranteed capture range from nominal frequency

RF output

Signal	TTL/ACMOS Compatible	
Rise and Fall Time	≤ 20MHz	10 nsec.
Measured at 10 – 90% levels	> 20MHz	5 nsec.
Symmetry	< 20MHz	45/55%
	≥ 20MHz	40/60%
Logic "0"	+0.5Vdc max.	
Logic "1"	+4.5Vdc min.	

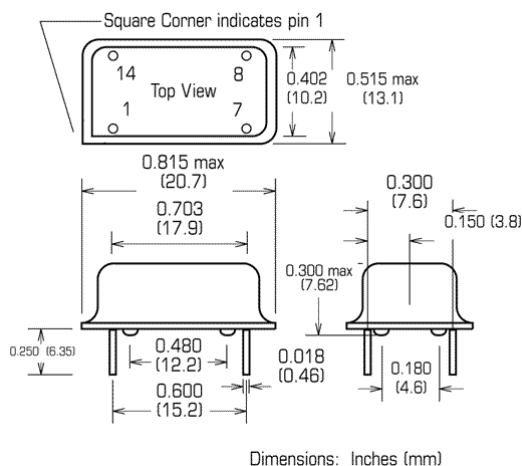
Supply Voltage

Supply voltage	+ 5 Vdc ± 5%	
Supply Current	1.0 to 20.0 MHz	12mA Max.
	20.1 to 44.9 MHz	20mA Max.
	45.0 to 85.0 MHz	45mA Max.

Additional Parameters

Phase Noise ¹	< - 75 dBc	10Hz	Note 1
	< -105 dBc	100Hz	
	< -130 dBc	1kHz	
	< -150 dBc	10kHz	
	< -155 dBc	100kHz	
Storage	-55 ...+125°C		
Processing	Tech_Note_1		
Packaging	Tech_Note_2		

Enclosure



Pin Connections

Pin	1	Voltage Control
Pin	7	GND/Case
Pin	8	Output
Pin	14	Supply Voltage (+ 5 Vdc)

Notes

- Typical values @ 26 MHz
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)