

7 x 5mm High Frequency HCMOS SMD

FEATURES

- Industry-standard 6 pad 7.0 x 5.0mm SMD package
- Frequency Range 125.01MHz to 200.0MHz
- High Q fundamental crystal and low jitter multiplier circuit
- Supply voltage +3.3Volts
- Designed for low-cost applications





Page 1 of 2

DESCRIPTION

HV5761 series oscillators provide a high quality HCMOS output at frequencies from 125.01MHz to 200.0MHz. Phase and RMS period jitter are kept within low limits. The oscillator has a tristate function available to conserve power.

SPECIFICATION

Model:	'HV' Series
Output Logic:	LVCMOS
Frequency Range:	125.01MHz to 200.0MHz
Supply Voltage Vdd:	+3.3VDC±5%
Supply Voltage Code:	'3'
Output Logic 'HIGH', '1':	90% Vdd min.
Output Logic 'LOW', '0':	10% Vdd max.
Integrated Phase Jitter: (12kHz to 20MHz)	2.3ps typical; 4ps max. for 155.520MHz
Period jitter RMS: (Decoupling capacitor between Vdd and ground.)	4.0ps typical for 155.520MHz
Period Jitter Peak to Peak: (Decoupling capacitor between Vdd and ground.)	27ps typical, 30ps for 155.520MHz
Current Consumption (15pF Load):	45mA max.
Rise/Fall Time:	2.4ns typical (0.3V to 3.0V, 15pF load)

PHASE NOISE

Offset	Frequency 155.520MHz
10Hz	-65 dBc/Hz
100Hz	-95 dBc/Hz
1kHz	-120 dBc/Hz
10kHz	-125 dBc/Hz
100kHz	-121 dBc/Hz
1MHz	-120 dBc/Hz
10MHz	-140 dBc/Hz

OUTLINE & DIMENSIONS

GENERAL SPECIFICATION

Frequency Stability: From ±25ppm over -40° to +85°C

(See part number table)

Load: 15pF

Ageing: ±3ppm max. first year ±2ppm per year

thereafter

Start-up Time: 10ms maximum

Duty Cycle: 50%±5% measured at 50% Vdd

Storage temperature: -55° to +100°C

Enable/Disable (Tristate)

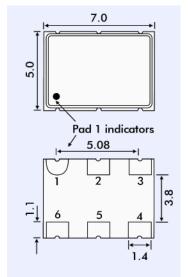
Enable: No connection or 70% Vdd applied to

Tristate pad.

Disable: 30% Vdd max. to tristate pad.

Input Static Discharge protection:

2kV minimum.



Pad Connections HV5761

- 1 Enable/Disable (Tristate)
- 2 Not connected
- 3 Ground
- 4 Output
- 5 Not connected
- 6 Supply Voltage

ABSOLUTE MAXIMUM RATINGS

Permanent damage may occur if units are operated beyond specified limits.

Supply Voltage: +4.6 VDC max.

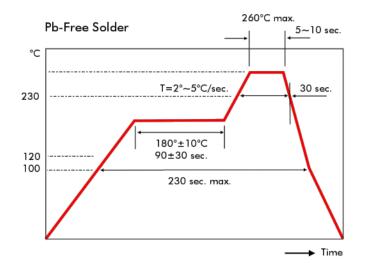
Input Voltage Vi: Vss-0.5 min., Vdd +0.5V max.
Input Voltage Vo: Vss-0.5 min., Vdd +0.5V max.



7 x 5mm High Frequency HCMOS SMD

Page 2 of 2

SOLDER PROFILE



PART NUMBER FORMAT

