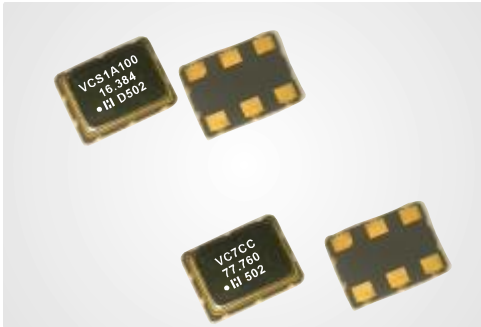




SMD VOLTAGE CONTROLLED CRYSTAL OSCILLATORS



• D7SV Series 7.0*5.0 VCXO



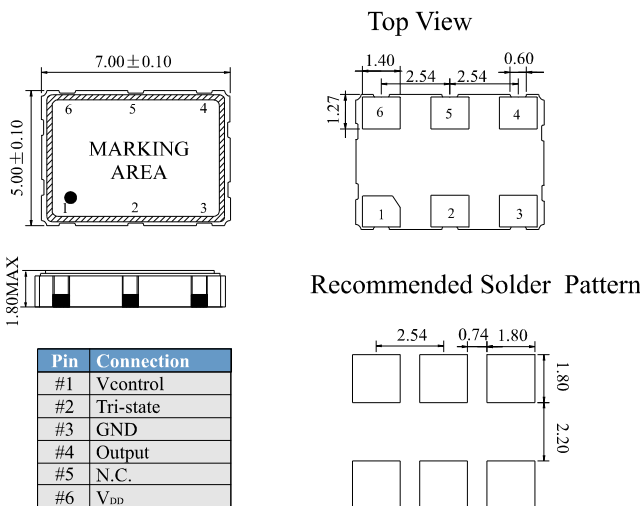
FEATURES

- Industry Standard with 7.0*5.0*1.8mm package
- TTL/HCMOS output compatible
- Tri-State Enable/Disable
- Tight tolerance performance with voltage IC control
- Designed primarily for use in phase locked loops, phase shift keying and other telecommunication applications such as ADSL, set-top box, and base stations etc.

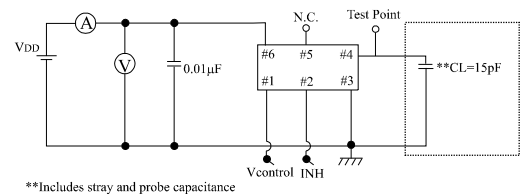
Electrical Specifications

Parameter	Condition	D7SV	
Frequency Range*	F0	1.75~54MHz	50~200MHz
Frequency Calibration	At 25°C	± 15ppm	
Temperature Stability	Over T _{OPR}	± 15ppm, ± 25ppm, ± 50ppm	
Stability vs. power change	V _{DD} +/-5%	± 5ppm	
Stability vs. load change	15pF+/-10%	± 3ppm	
Pullability	Over Control Voltage Range	± 100ppm, ± 200ppm	
Control Voltage Range		0~3.3V	
Operating Temperature Range	T _{OPR}	-20°C ~+70°C (-40°C ~+85°C option)	
Storage Temperature Range	T _{STG}	-55°C ~+125°C	
Power Supply Voltage	V _{DD}	3.3V ± 5%	
Aging (First Year)	25°C ± 3°C	± 5ppm	
Supply Current	I _{DD}	30mA Max	40mA Max
Output Symmetry	Sym	At 1/2 V _{DD}	
Rise time	T _r	20% V _{DD} ~80% V _{DD}	10nS Max
Fall Time	T _f	80% V _{DD} ~20% V _{DD}	10nS Max
Output Voltage	V _{OH}	90% V _{DD} min	
	V _{OL}	10% V _{DD} max	
Output Load		15pF Max	
Start-up Time	T _s	10mS Max	
Pin 2, tri-state function		Pin 2=H or open....Output active at pin 4	
		Pin 2=L.....high impedance at pin 4	
Packing Unit		1000pcs/reel	

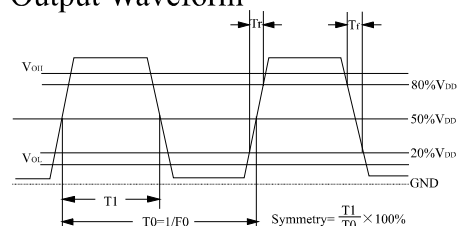
Mechanical Dimensions(mm)



Test Circuit



Output Waveform



***note: A 0.01µF bypass capacitor should be placed between V_{DD}(Pin6) and GND(Pin3) to Minimize power supply line noise