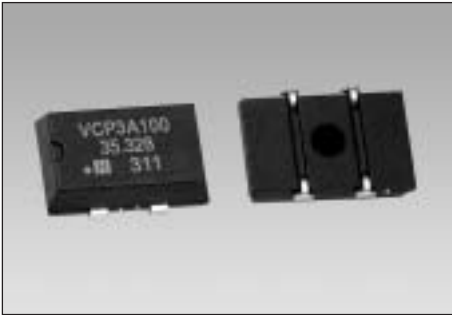




• VC-P Series



The VC-P series is plastic surface mount voltage controlled crystal oscillator designed primarily for use in phase locked loops, phase shift keying and other telecommunication applications such as ADSL, Cable modem etc. VC-P1 is 5V power supply and VC-P4 is 3.3V power supply.

FEATURES

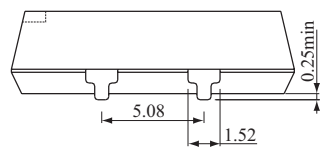
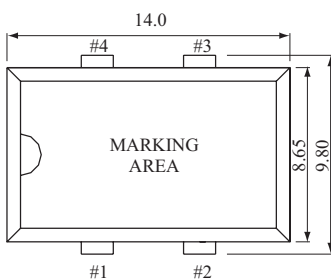
- Plastic Surface Mount
- Industry Standard
- TTL/HCMOS output compatible
- Tri-State Enable
- Tape and Teel
- 3.3V available

Electrical Specifications

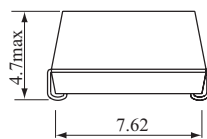
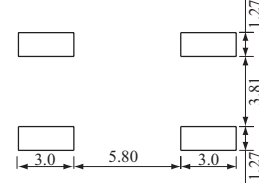
Parameter	Condition	VC-P1	VC-P4
Frequency Range*	F ₀	1.544MHz~30.000MHz	1.544MHz~30.000MHz
Frequency Calibration	At 25°C	± 15ppm	
Temperature Stability	Over T _{OPR}	± 15ppm, ± 25ppm, ± 50ppm	
Stability vs. power change	V _{DD} +/-5%	± 5ppm	
Stability vs. load change	15pF+/-10%	± 3ppm	
Pullability	Over Control Voltage Range	± 50ppm, ± 100ppm, ± 200ppm	± 50ppm, ± 100ppm, ± 150ppm
Control Voltage Range		0.5~4.5V	0~3.3V
Operating Temperature Range	T _{OPR}	0°C~70°C(-40°C~+85°C option)	
Storage Temperature Range	T _{STG}	-55°C~+125°C	
Power Supply Voltage	V _{DD}	5.0V+/-5%	3.3V+/-5%
Aging (First Year)	25°C ± 3°C	± 5ppm	
Supply Current	I _{DD}	35mA Max	25mA Max
Output Symmetry	Sym	At 1/2V _{DD} 40/60%(45/55% Option)	
Rise time	T _r	20%V _{DD} ~80%V _{DD} 10 nS Max	8 nS Max
Fall Time	T _f	80%V _{DD} ~20%V _{DD} 10 nS Max	8 nS Max
Output Voltage	V _{OH}	90% V _{DD} min	
	V _{OL}	10% V _{DD} max	
Output Load		30pF max	
Start-up Time	T _s	10mS Max	

* Frequency over 40.000Mhz, please consult factory.

Mechanical Dimensions(mm)

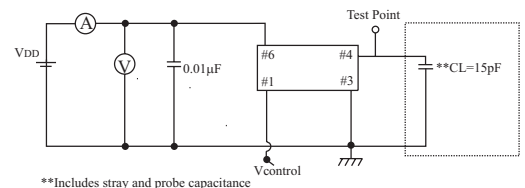


Recommended Solder Pattern



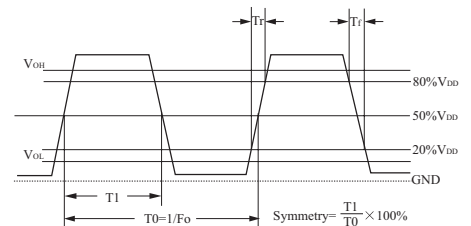
Pin	Connection
#1	V _{control}
#2	GND
#3	Output
#4	V _{DD}

Test Circuit



**Includes stray and probe capacitance

Output Waveform



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Specifications are subject to change without notice