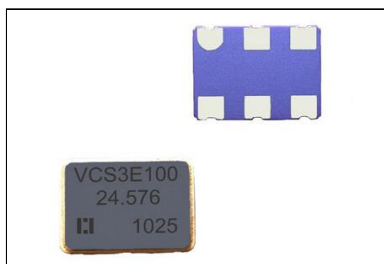


VC-S1/S3 Series

1.0 to 54.0MHz



VCXO is a Voltage Controlled Crystal Oscillator.

This type of oscillator is a full size tri-state Enable/Disable control. The metal package with pin #4 case ground acts as shielding to minimize EMI radiation.

FEATURES

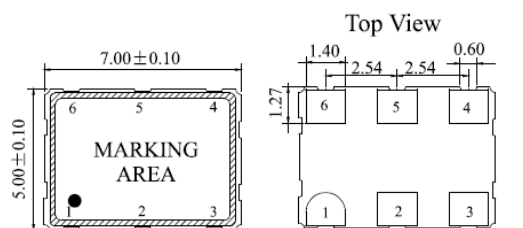
- Miniature Package
- Industry Standard
- Tape and Reel
- RoHS meet

Electrical Specifications

Parameter	Symbol	Condition	VC-S1	VC-S3
Frequency Range	F_0		1.0 to 54.0MHz	
Frequency Calibration		At 25°C	±15PPM	
Frequency Stability *		All Condition *	±15PPM, ±25PPM, ±50PPM	
Stability vs. Power Change		$V_{DD} \pm 5\%$	±5PPM	
Stability vs. Load Change		15pF±10%	±3PPM	
Pullability Over Control Voltage Range			±50PPM, ±100PPM, ±200PPM	
Power Supply Voltage	V_{DD}		5.0V±10%	3.3V±10%
Control Voltage Range			0.5 ~ 4.5V	0 ~ 3.3V
Operating Temperature Range	T_{OPR}		0°C to 70°C (-40°C to 85°C option)	
Storage Temperature Range	T_{STG}		-55°C to 125°C	
Aging (first year)		25°C ± 3°C	± 5PPM	
Supply Current	I_{DD}		30mA Max	
Output Symmetry	Sym	$\frac{1}{2} V_{DD}$	40/60% (45/55% option)	
Rise Time	T_r	10% V_{DD} to 90% V_{DD}	10ns Max	8ns Max
Fall Time	T_f	90% V_{DD} to 10% V_{DD}	10ns Max	8ns Max
Output Voltage	V_{OH}		90% V_{DD} Min	
	V_{OL}		10% V_{DD} Max	
Output Load			15pF Max	
Startup Time	T_S		10ms Max	

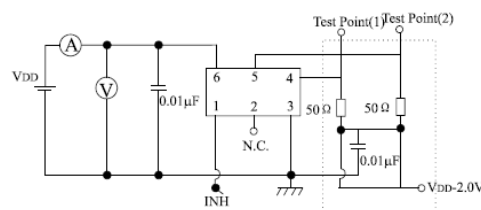
* Include 25°C tolerance, operating temperature range, input voltage change, aging, load change, shock and vibration

Mechanical Dimensions – mm (inch)



Pin	Connection
1	Vcontrol
2	Tri-state
3	GND
4	Output
5	N.C.
6	V_{DD}

Test Circuit



Output Waveform

