

Voltage Controlled Crystal Oscillator (VCXO)

High stability
Ceramic Package
Miniature type

Pb-free : RoHs compliance



VCX-5032C43 / C45

Typical applications

- MPEG. ADSL. Settop Box. Etc.

Features

- 1.5 to 54 MHz.
- C-MOS out (15pF).
- Miniature type essential in the high density PCB.
- Package : Metal lid + Ceramic package.
- 5.0×3.2×1.0mm

Specifications

Model		VCX-5032C43, VCX-5032C63	VCX-5032C45, VCX-5032C65
Available Frequency Range		1.500 to 54.000 MHz	
Frequency Stability		±30 ppm(-20 to +70° C) , ±50 ppm,±100 ppm(-40 to +85° C)	
Operating Temperature		-20 to +70° C , -40 to +85° C	
Storage Temperature		-40 to +85° C	
Power Supply Voltage		3.3V±5%	5.0V±5%
Power Supply Current Consumption		±100 ppm min / +1.65V±1.35V	
		15mA max: ~30.0MHz	20mA max: ~30.0MHz
		20mA max: ~40.0MHz	25mA max: ~40.0MHz
		25mA max: ~54.0MHz	30mA max: ~54.0MHz
Output	Level	VOL : 10%VDD max. / VOH : 90%VDD min.	
	Load	C-MOS (15 pF max.)	
	Rise & Fall Time	10ns max. F>40MHz at 10% to 90% Vdd	
	Duty Cycle	45 to 55% at 50% Vdd	
Phase noise		-130dBc / Hz typ. (at 1 KHz)	
Tri state Function		#2 : N.C. or "H" → Outout enable / #2 : "L" → Hi-Z (Output disable)	

Environmental Characteristics

Description	Specification
Fall Shock	Test : 3 time free drop onto concrete board from 150cm high Result: ±5.0 ppm max.
Vibration Shock	Test : Freq. 5-500Hz, Amplitude 1.5mm, Test time 4cycles/XYZ axis Result: ±5.0 ppm max.
Solderability	Test : Immersed into solder bath at 235±° C for 3 sec. Result: More than 95%
Humidity	Test : 90 to 95%RH at 60±3° C±500 hours Result: ±5.0 ppm max.
Reflow Heat	Test : 2 times of IR reflow soldering in accordance with reflow temerature profil as per the document No.:TR-0531 Result: ±1.0 ppm max.

Outline Drawing & Suggested Pad

