

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Oven Controlled Crystal Oscillator OCXO

CRYSTER CRYSTE

Part Number CO27VH15DE-02-10.000

HCMOS Output

Applications

- Base Stations
- RF Sources

Features

- High Stability
- Excellent Phase Noise
- AT-Cut Crystal

FREQUENCY STABILITIES	MIN	ТҮР	MAX	UNITS	CONDITIONS
Frequency vs Operating Temp	-200		+200	PPB	-20° to +80°C (referenced to 25°C)
Frequency vs 5 years aging	-500		+500	PPB	
Frequency vs 10 years aging	-700		+700	PPB	-20° to +80°C
Warm-up Time to within ±200ppb			3.00	Minutes	@ +25°C

Supply Voltage / Current	MIN	ТҮР	MAX	UNITS	CONDITIONS
Supply Voltage	+14	+15	+16	VDC	
Supply Current			500	mA	During Warm-up
			110	mA	Steady State

HCMOS OUTPUT	MIN	TYP	MAX	UNITS	CONDITIONS
Signal Level (Voh)	4.5			VDC	
Signal Level (Vol)			0.5	VDC	
Load	45		55	%	@ (Voh-Vol)/2
Load		15		pF	

FREQUENCY TUNING	MIN	ТҮР	MAX	UNITS	CONDITIONS
Tuning Range	±1		±1.5	PPM	Over Control Range
Control Range	0	5	10	VDC	
Input Resistance	50K			Ω	
Slope		POSITIVE			
Linearity			10	%	
Setability @ MHz	4	5	6	VDC	

PN: CO27VH15DE-02-10.000 Rev. E





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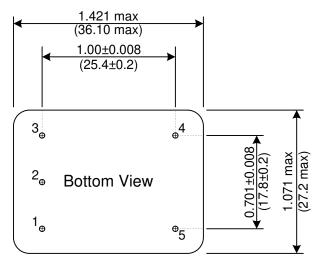
Part Number CO27VH15DE-02-10.000

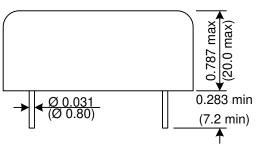
HCMOS Output

OUTPUT CHARACTERISTICS	MIN	ТҮР	MAX	UNITS	CONDITIONS
Phase Noise			-102	dBc/Hz	@ 10Hz Offset
			-132		@ 100Hz Offset
			-150		@ 1kHz Offset
			-152		@ 10kHz Offset
Short Term Stability		2×10 ⁻¹¹		Sec	Allen Variance @ 1 Sec
Spurious			-93	dBc	Within 100Hz to 3MHz from Carrier

ABSOLUTE MAXIMUM RATING	MIN	ТҮР	MAX	UNITS	CONDITIONS
Supply Voltage			20	VDC	
Storage Temperature	-45		+90	°C	
Operable Temperature	-20		+80	°C	
Load			50	pF	

ENVIRONMENTAL CONDITIONS				
SHOCK	IEC 68-2-27 (Test Ea) 30G, 10mSec, Half Sine			
VIBRATION	IEC 68-2-6 (Test Fc) 0.35mm, 10G, 5-500Hz, 6 cycles/axis			
THERMAL SHOCK	IEC 68-2-14 (Test Na) 30 min. in each extreme temperature			
HUMIDITY	MIL-STD-202 method 106D			





Unless otherwise speci	fied,
dimensions are in:	IN
	(\overline{mm})

Function
Control Voltage
No Connect
Supply Voltage
RF Output
Case Ground

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