



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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Part Number CO27VS05DE-02-10.000
SineWave Output



Applications

- Base Stations
- RF Sources

Features

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

FREQUENCY STABILITIES	MIN	TYP	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	TYP	MAX	UNITS	CONDITIONS
Supply Voltage	+4.75	+5	+5.25	VDC	
Supply Current			500	mA	During Warm-up
			275	mA	Steady State

SINEWAVE OUTPUT	MIN	TYP	MAX	UNITS	CONDITIONS
Output Power	0	+3	+6	dbm	
Load		50		Ω	

FREQUENCY TUNING	MIN	TYP	MAX	UNITS	CONDITIONS
Tuning Range	±1		±1.5	PPM	Over Control Range
Control Range	0.5	2.5	4.5	VDC	
Input Resistance	50K			Ω	
Slope	POSITIVE				
Linearity			10	%	
Setability @ MHz	2	2.5	3	VDC	

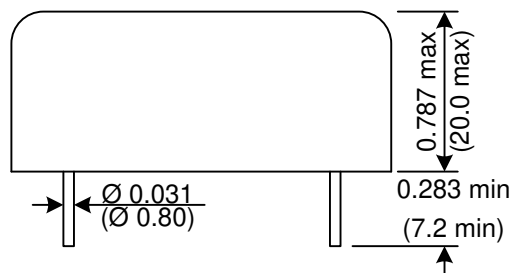
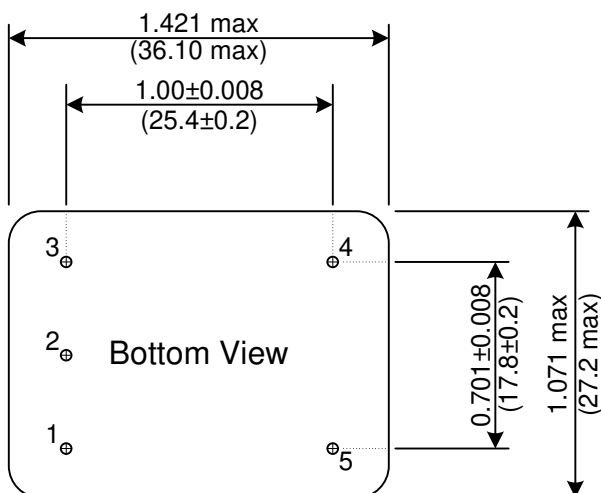
PN: CO27VS05DE-02-10.000 Rev. E

Part Number CO27VS05DE-02-10.000
SineWave Output

OUTPUT CHARACTERISTICS	MIN	TYP	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	TYP	MAX	UNITS	CONDITIONS
Supply Voltage			20	VDC	
Storage Temperature	-45		+90	°C	
Operable Temperature	-20		+80	°C	
Load			50	Ω	

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



Pin	Function
1	Control Voltage
2	No Connect
3	Supply Voltage
4	RF Output
5	Case Ground

Unless otherwise specified,
dimensions are in: $\frac{IN}{(mm)}$

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