

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	

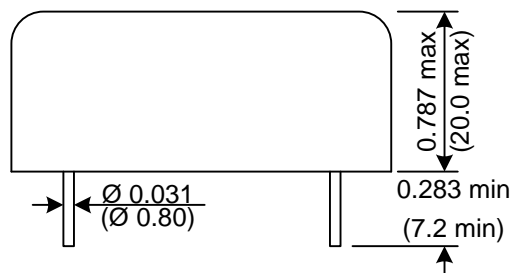
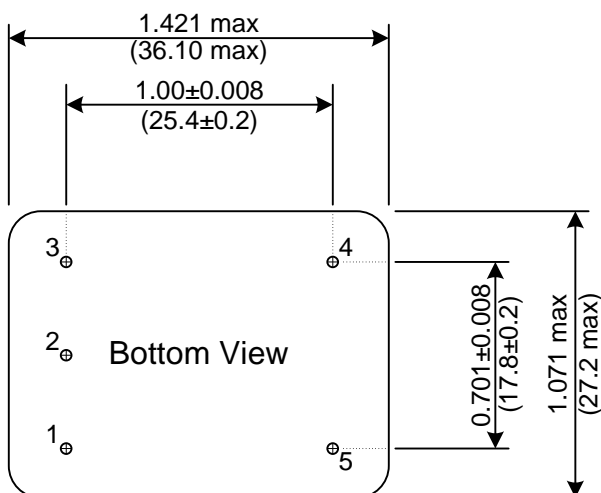
PN: CO27VS05DE-02-10.000 Rev. E

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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: $\frac{\text{IN}}{\text{(mm)}}$

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