

VCO Product Specification

 Model:
 VCO190-350T(Y)
 Rev:
 Date:
 8/31/2006

 Customer:
 SIRENZA MICRODEVICES, INC.

Operating Temperature Range: (-10 ° to 70 ° C)

Pb RoHS Compliant

To order models as RoHS Compliant add "Y" suffix to base model number.

Parameter	Min	Тур	Max	Units	Х	Remarks
Frequency Range -	340	350	360	MHz	Х	
Tuning Voltage:						
340 MHz	1	1.5		Vdc	Х	
360 MHz		3.5	4	Vdc	Х	
Tuning Sensitivity -	7	10	13	MHz/V	Х	
Output Power -	0	3	6	dBm	Х	
Output Phase Noise:						
10 kHz		-118	-110	dBc/Hz		
100 kHz		-140	-132	dBc/Hz	Х	
Power Supply -	4.75	5	5.25	Volts		
Supply Current -		14	20	mA	Х	
Harmonic Suppression:						
2nd Harmonic		-15	-10	dBc	Х	
3rd Harmonic		-20	-15	dBc	Х	
Spurious (Non-Harmonic) -			-90	dBc		
Frequency Pushing - 4.75 to 5.25 V		0.8	1	MHz p-p		
Frequency Pulling - 12 dB RL		0.2	1	MHz p-p		
Tuning Port Capacitance -		100		рF		
Output Impedance -		50		Ω		

Package Information

Package Type: T (0.5 x 0.5 x 0.156 inches)	Drawing Number:	60035
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Comments

X Indicates parameter to be tested 100% in production

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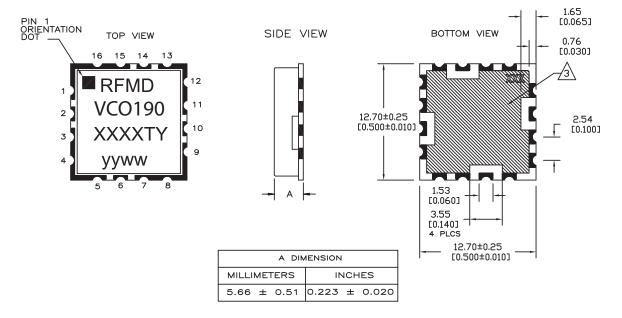
fax 303.410.7988





Package Drawing & Pin Outs

12.7mm x 12.7mm x 5.66mm (0.5in x 0.5in x 0.223in)



NOTE, UNLESS OTHERWISE SPECIFIED:

- 1. THE METAL CASE IS GROUND.
- ALL HALF VIA CONTACTS ARE PLATED THRU FROM THE PAD ON THE TOP SIDE TO THE PAD ON THE BOTTOM SIDE OF THE BOARD. 2.
- A HATCHED AREAS ARE GROUND AND ARE COVERED WITH LPI SOLDER MASK OVER BARE COPPER. ALL CONTACT AREAS ARE PLATED. SIGNAL VIAS MAY BE LOCATED WITHIN GROUND PLANE.
- $\underline{\mathbb{A}}$ cross hatched area indicates area where solder MASK SHOULD BE APPLIED TO MOUNTING BOARD.
- 5. XXXX REPRESENTS THE MODEL NUMBER.
- 6. yyww IS THE DATE CODE.
- Y AT THE END OF THE MODEL NUMBER DESIGNATES RoHS COMPLIANCE. 7.
- 8. DIMENSIONS ARE IN MILLIMETERS AND [INCHES].

	PIN OUT FOR VCO
PIN	APPLICATION
2	Vt
6	MODULATION (OPT)
10	RF OUT
14	VCC

ALL OTHER PINS ARE GROUND