

# 502MHz VOLTAGE CONTROLLED OSCILLATOR

ACV2-100-502



Dimensions: 0.50 x 0.50 x 0.22mm

## STANDARD SPECIFICATIONS:

	Min	Typ	Max	Units	Cond.
Frequency Range	502		529	MHz	1
Tuning Voltage	0.5		4.5	V	1
Modulation Sensitivity		10		MHz/V	3
Operates with Vtune = 0V					3
Output Power	-3	0	3	dBm	1
Phase Noise					
1KHz Offset		-91		dBc/Hz	2
10KHz Offset		-116		dBc/Hz	3
100KHz Offset		-136		dBc/Hz	2
1MHz Offset		-156		dBc/Hz	2
Pushing			5	MHz/V	3
Pulling (14 db R.L.)			5	MHz	3
Modulation Bandwidth:		N/A		MHz	4
Tuning Port Capacitance			150	pF	2
Harmonics			-10	dBc	3
Sub-Harmonics	2 <sup>nd</sup>	N/A		dBc	3
	3 <sup>rd</sup>			dBc	3
	4 <sup>th</sup>			dBc	3
Vcc		5		V	5
Icc		11		mA	5
Operating Temperature	-40		+85	C	3
Package		0.50		inch sq.	5

## COND. NOTES:

1. Tested in production
2. Per current design, not a tested parameter
3. Sample tested from production lot
4. Not a tested or guaranteed design goal
5. By inspection

## MARKING:

- 2450
  - ACV2ZY
- (Z for month, Y for year  
ex. D3 for April 2003)

## NOTES:

1. Except for output pins, bottom is solid ground plane
2. All dimensions in mils.
3. All holes are plated through

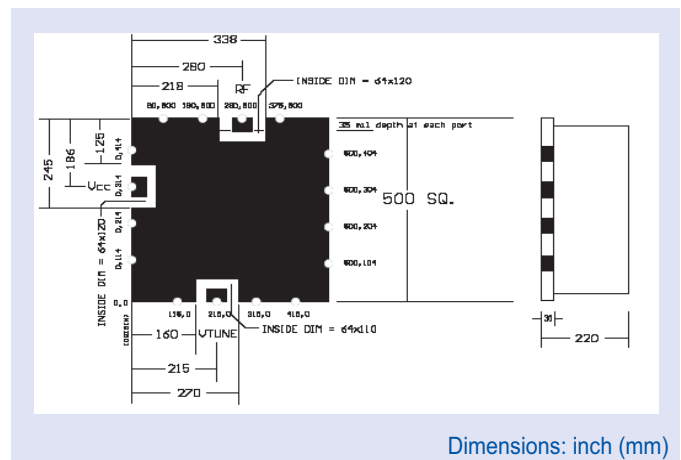
LABEL ARROW POINTS TO RF OUT

### PINOUT

P3 = RF OUT  
P11 = Vtune  
P15 = Vcc  
ALL OTHER PINS = GND

OPTION T for Tape and Reel

## OUTLINE DRAWING:



Dimensions: inch (mm)

ABRACON IS  
ISO 9001 / QS 9000  
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rev1.1-9/05



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