

2130 MHz Voltage Controlled Oscillator (VCO)



Key Features:

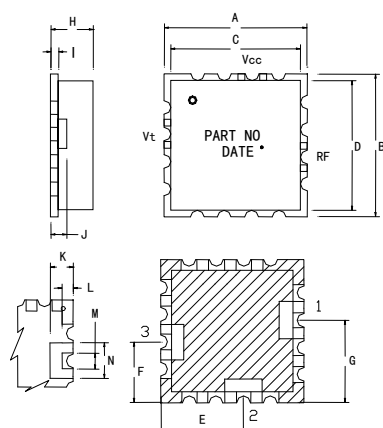
- Reliable
- Good Phase Noise
- 5.0 V Operation
- SMT Package
- Electrostatics Sensitive Device
- RoHS compliant



Electrical Specifications¹: (@+25 °C)

Parameter	Min	Typical	Max	Units
Frequency range	2080		2180	MHz
Output Power	-2	0	2	dBm
Tuning Sensitivity		50		MHz/V
Tuning Voltage	0.5		3.0	Volt
Phase noise @ 10 kHz offset @ 1 MHz offset		-105 -145		dBc/Hz
Spurious Suppression		n/a		dBc
Harmonic Suppression 2nd		-25		dBc
Pushing		-		MHz/Volt
Pulling		-		MHz
Tuning Port Capacitance		-		pF
Power supply		5.0		Volt
Supply Current		20		mA
Operating Temperature Range	-30		+85	°C

Mechanical Outline: (not scaled)



Pin Configuration

1	RF Output
2	Vcc
3	Vt
Others	GND

Size Symbol	Value (mm)		
	Min	Typ	Max
A	12.5	12.7	12.9
B	12.5	12.7	12.9
C	11.6	11.8	12.0
D	11.6	11.8	12.0
E	7.8	8.0	8.2
F	5.3	5.5	5.7
G	6.95	7.15	7.35
H		4.0	
I		0.8	
J		1.6	
K		1.8	
L		0.9	
M		1.5	
N		3.2	

(Dimensions shown are nominal in millimeters)

Ordering Information

Part Number	RVCS2130A
-------------	-----------

¹ Specifications are subject to change without notice.

Richardson Electronics

40W267 Keslinger Road

P.O. Box 393

LaFox, IL 60147

Telephone: (800) 737- 6937

(630) 208-3637

Fax: (630) 208-2550

Internet: www.rfwireless.rell.comE-Mail: rlc@rell.com**IMPORTANT NOTICE**

RICHARDSON ELECTRONICS, LTD AND ITS AFFILIATES RESERVE THE RIGHT TO MAKE CHANGES TO THE PRODUCT(S) OR INFORMATION CONTAINED HEREIN WITHOUT NOTICE. RICHARDSON ELECTRONICS ASSUMES NO RESPONSIBILITY FOR ANY ERRORS WHICH MAY APPEAR IN THIS DOCUMENT.

WARRANTY INFORMATION APPLICABLE TO THE PRODUCT IDENTIFIED HEREIN IS AVAILABLE UPON REQUEST. NOTHING CONTAINED HEREIN SHALL CONSTITUTE A WARRANTY, REPRESENTATION OR GUARANTEE OF ANY KIND. RICHARDSON ELECTRONICS EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS AND/OR IMPLIED INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY, AND OF FITNESS FOR A PARTICULAR PURPOSE, USE OR APPLICATION.

NO PART OF THIS DOCUMENT MAY BE COPIED OR REPRODUCED IN ANY FORM OR BY ANY MEANS WITHOUT THE PRIOR WRITTEN CONSENT OF RICHARDSON ELECTRONICS, LTD.

WARNING

RICHARDSON ELECTRONICS PRODUCTS ARE NOT INTENDED FOR USE IN LIFE SUPPORT APPLIANCES, DEVICES OR SYSTEMS. USE OF A RICHARDSON ELECTRONICS PRODUCT IN ANY SUCH APPLICATION WITHOUT WRITTEN CONSENT IS PROHIBITED.

Available exclusively from Richardson Electronics, Ltd. - 800-737-6937 (U.S. & Canada) - 630-208-3637 (International)
or visit www.rfwireless.rell.com. **See important product notice on last page of this document.**

Internal Richardson Document #	Origination Date: March 2009	Rev: 1P Date: March 2009	Page 2/2
--------------------------------	---------------------------------	-----------------------------	----------