



Coaxial Resonator VCO

MCS1210-1270CR

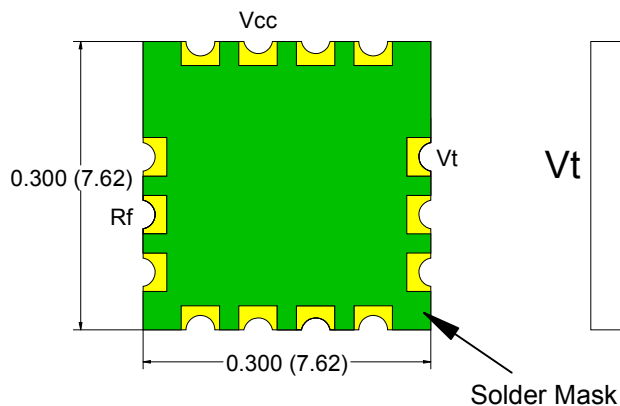
CR Package

Performance Specification	Min	Typ	Max	Units
Frequency Range	1210	-	1270	MHz
Tuning Voltage	0.3	-	2.7	Vdc
Vcc	3	3.3	3.6	Vdc
Icc	-	12	12.5	mA
Output Power	-0.5	+0.5	+1	dBm
2nd Harmonic	-	-17	-16	dBc
Pushing	-	0.15	0.2	MHz/V
Pulling P-P 14dB Rtn Loss	-	0.6	0.7	MHz
Tuning Port Capacitance	-	18	-	pF
Load Impedance	-	50	-	Ohms
Phase Noise @ 1KHz Offset	-	-80	-78	dBc/Hz
Phase Noise @ 10KHz Offset	-	-106	-105	dBc/Hz
Phase Noise @ 100KHz Offset	-	-126	-125	dBc/Hz
Tuning Sensitivity (Kvco)	21	-	38	MHz/V
Frequency Drift @ -40 C	-	-	+2.2	MHz
Frequency Drift @ +85 C	-	-	-1.2	MHz
Power vs Temp @ -40 C	-	-	+2	dBm
Power vs Temp @ +85 C	-	-	-1.4	dBm
Operating Temperature	-40	-	+85	C
Storage Temperature	-55	-	+125	C
Package Style		CR		

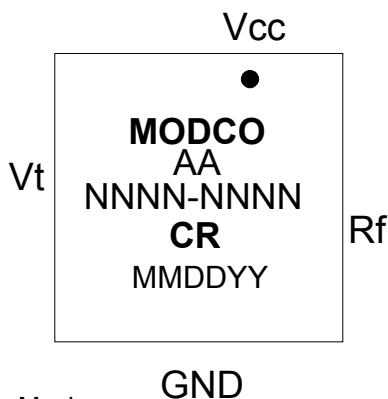


CR Package dimensions (Units; inches (mm))

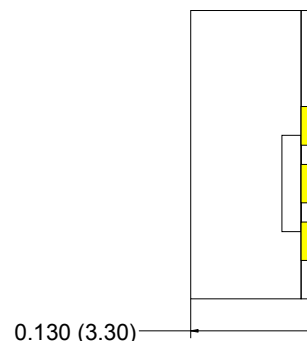
BOTTOM VIEW



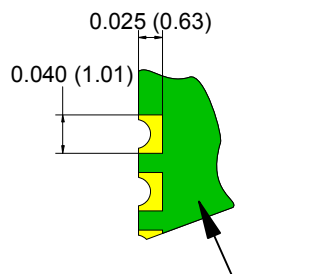
TOP VIEW



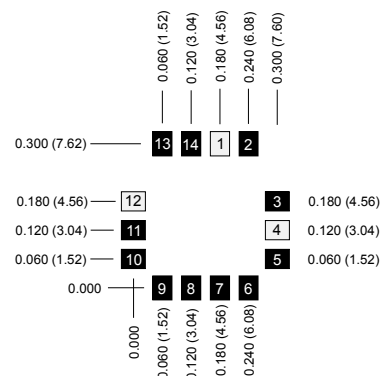
SIDE VIEW



PAD DETAIL



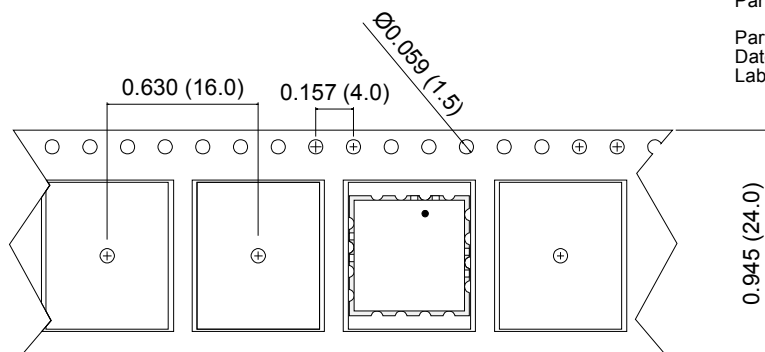
PCB pad layout



- Notes:
1. The case is ground.
 2. Unless otherwise specified all dimensions are in inches.
 3. Unless otherwise specified finish is 150-200 micro inches nickel over copper clad PCB, 5-15 micro inches malleable, 99.99% pure gold, over nickel

Pin	Con.
1	Vcc
4	Rf
12	Vt
Others	GND

Tape and Reel (Units inches (mm)) Part labeling



Part number: AA=Alpha pre-fix, product family or custom part designator.
 NNNN-NNNN=Numeric, frequency range
 Part type: 2 to 4 alpha part type designator
 Date code: MM=month, DD=day, YY=year
 Label material is high temp. polyester film, opaque white, with black marking.

