

Surface Mount

Voltage Controlled Oscillator

ROS-2404C-119+

Linear Tuning 2267 to 2404 MHz

Features

- linear tuning characteristics
- low phase noise
- low pulling
- low pushing
- aqueous washable

Applications

- point-to-point communication
- services ancillary to programming / broadcasting



CASE STYLE: CK605
PRICE: \$15.95 ea. QTY (5-49)

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

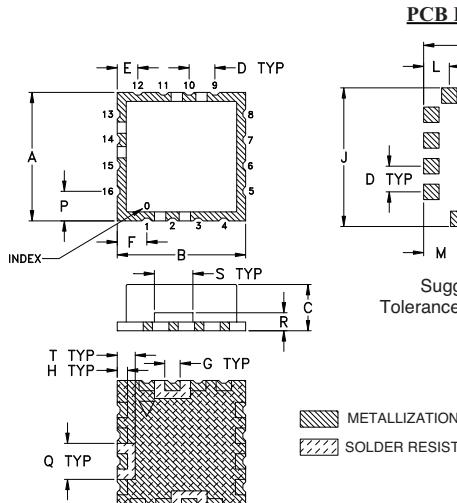
Electrical Specifications

| MODEL NO. | FREQ. (MHz) | POWER OUTPUT (dBm) | PHASE NOISE dBc/Hz SSB at offset frequencies, kHz | TUNING | | | | | | NON HARMONIC SPURIOUS (dBc) | HARMONICS (dBc) | PULLING pk-pk @12 dBr (MHz) | PUSHING (MHz/V) | DC OPERATING POWER |
|----------------|-------------|--------------------|---|--------|-------------------|---------------------|---------------|---------------------------------|------|-----------------------------|-----------------|-----------------------------|-----------------|--------------------|
| | | | | Typ. | VOLTAGE RANGE (V) | SENSITIVITY (MHz/V) | PORT CAP (pF) | 3 dB MODULATION BANDWIDTH (MHz) | | | | | | |
| | | | | | | | | Min. | Max. | Typ. | Typ. | Typ. | Typ. | Typ. |
| ROS-2404C-119+ | 2267 2404 | +0.5 | -80 -106 -128 -148 | 1 | 13 | 19-27 | 18 | 120 | -90 | -26 | -14 | 0.4 | 0.5 | 6 40 |

Pin Connections

| | |
|--------|--------------------------------|
| RF OUT | 10 |
| VCC | 14 |
| V-TUNE | 2 |
| GROUND | 1,3,4,5,6,7,8,9,11,12,13,15,16 |

Outline Drawing

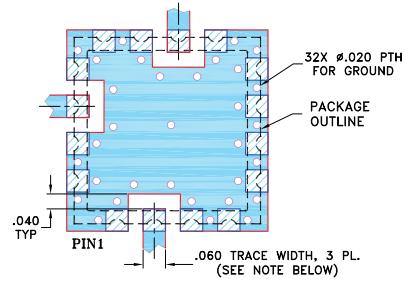


Maximum Ratings

| | |
|--------------------------------------|----------------|
| Operating Temperature | -55°C to 85°C |
| Storage Temperature | -55°C to 100°C |
| Absolute Max. Supply Voltage (Vcc) | 7V |
| Absolute Max. Tuning Voltage (Vtune) | 15V |
| All specifications | 50 ohm system |

Permanent damage may occur if any of these limits are exceeded.

Demo Board MCL P/N: TB-10 Suggested PCB Layout (PL-012)



NOTES:

1. TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS $.030" \pm .002"$; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
 2. BOTTOM SIDE OF THE BOTTOM IS CONTINUOUS GROUND PLANE.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
 DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Outline Dimensions (inch mm)

| A | B | C | D | E | F | G | H | J | K | L | M | N | P | Q | R | S | T | wt. |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| .500 | .500 | .180 | .100 | .080 | .115 | .060 | .040 | .540 | .060 | .100 | .135 | .135 | .115 | .140 | .070 | .150 | .070 | grams |

12.70 12.70 4.57 2.54 2.03 2.92 1.52 1.02 13.72 1.52 2.54 3.43 3.43 2.92 3.56 1.78 3.81 1.78 1.0



For detailed performance specs & shopping online see web site

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IF/RF MICROWAVE COMPONENTS

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