

Coaxial

Voltage Controlled Oscillator

ZOS-100

Dual Output 50 to 100 MHz

Features

- octave bandwidth
- linear tuning, 4.5 MHz/V typ.
- excellent harmonic suppression, -29 dBc typ.
- rugged shielded case
- protected by US Patent, 6,943,629

Applications

- auxiliary output freq. monitoring
- load insensitive source



CASE STYLE: BR386

| Connectors | Model | Price | Qty. |
|------------|-----------|----------|-------|
| SMA | ZOS-100-S | \$119.95 | (1-9) |

Electrical Specifications

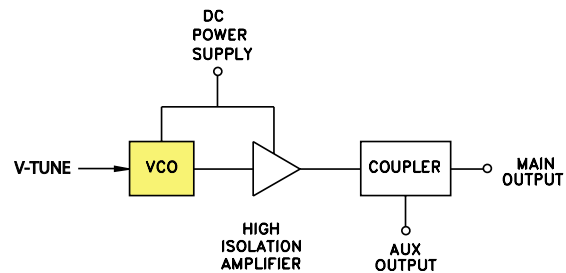
| MODEL NO. | FREQ. (MHz) | | POWER OUTPUT (dBm) Typ. | | TUNE VOLTAGE (V) | | PHASE NOISE (dBc/Hz) SSB at offset frequencies: Typ. | | | PULLING (MHz) pk-pk (open/short) | PUSHING (MHz/V) | TUNING SENSITIVITY (MHz/V) | HARMONICS (dBc) | | 3 dB MODULATION BANDWIDTH (MHz) | DC OPERATING POWER | |
|-----------|-------------|------|-------------------------|------|------------------|------|--|---------|-------|----------------------------------|-----------------|----------------------------|-----------------|------|---------------------------------|--------------------|------|
| | Min. | Max. | Main | Aux. | Min. | Max. | 10 kHz | 100 kHz | 1 MHz | | | | Typ. | Typ. | | Typ. | Max. |
| ZOS-100 | 50 | 100 | +9 | -12 | 1 | 16 | -111 | -131 | -143 | 0.026 | 0.25 | 4.5 | -29 | -20 | 0.1 | 12 | 140 |

Maximum Ratings

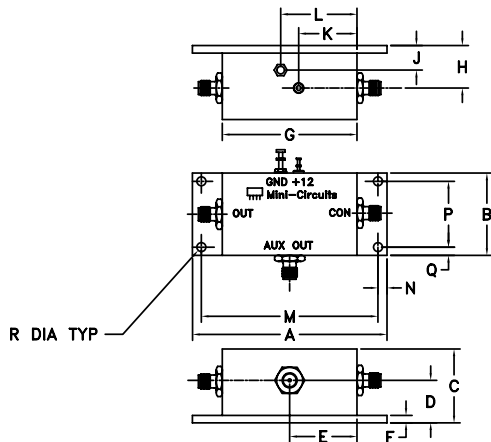
| | |
|--------------------------------------|----------------|
| Operating Temperature | -55°C to 85°C |
| Storage Temperature | -55°C to 100°C |
| Absolute Max. Supply Voltage (Vcc) | +16V |
| Absolute Max. Tuning Voltage (Vtune) | +18V |

all specifications: 50 ohm system

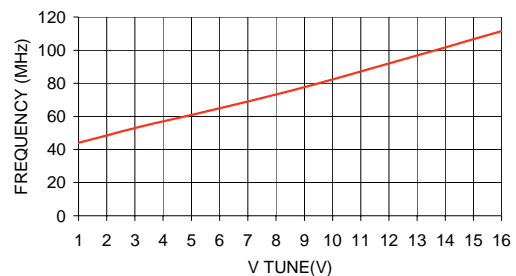
electrical schematic



Outline Drawing



ZOS-100
FREQUENCY vs. TUNING VOLTAGE



Outline Dimensions (inch/mm)

| | | | | | | | | |
|-------|-------|-------|-------|-------|------|-------|-------|-------|
| A | B | C | D | E | F | G | H | J |
| 3.25 | 1.38 | 1.25 | .71 | 1.13 | .125 | 2.25 | .71 | .41 |
| 82.55 | 35.05 | 31.75 | 18.03 | 28.70 | 3.18 | 57.15 | 18.03 | 10.41 |
| K | L | M | N | P | Q | R | wt | |
| .98 | 1.28 | 2.950 | .15 | 1.100 | .14 | .150 | grams | |
| 24.89 | 32.51 | 74.93 | 3.81 | 27.94 | 3.56 | 3.81 | 180 | |



INTERNET <http://www.minicircuits.com>

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010

Mini-Circuits ISO 9001 & ISO 14001 Certified

REV. OR
M97271
ZOS-100
SK/TD/CP
051205