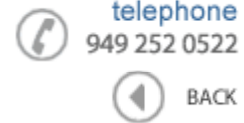





Data Sheet



Product Category: SMD Oscillators

| Series Number | Package | Description | Last Modified |
|---------------|---------------------|-------------|---------------|
| 920 | 5 x 7 Ceramic 6 Pad | LVDS Output | Jan. 01 2007 |

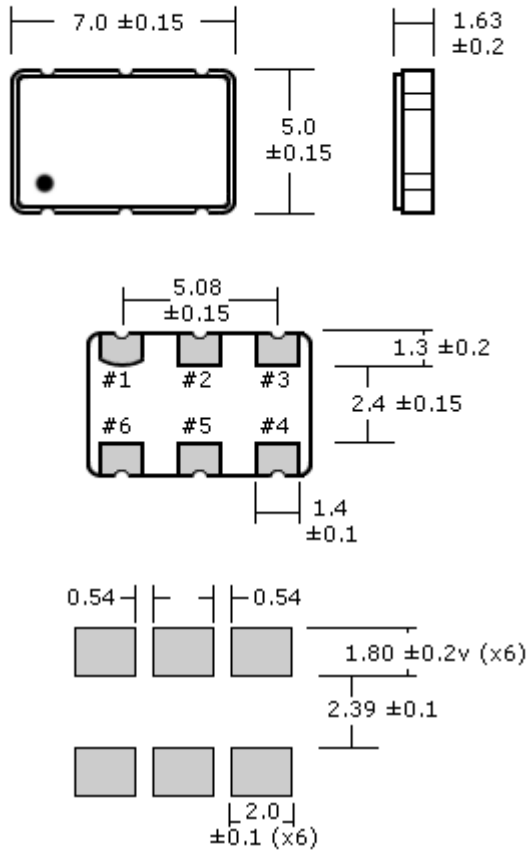
FEATURES

- High Frequency
- LVDS Square Wave
- Ultra-Low Jitter
- Extended Operating Temperature
- SMD Version 6 Pad
- RoHs / Lead Free compliant 



OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

| PARAMETERS | CONDITIONS | CHARACTERISTICS | UNITS |
|---|-----------------------------|--|-------|
| Output Logic | - | LVDS Square Wave | - |
| Input Voltage (VDD) | - | 3.3 ±5% | VDC |
| Frequency Range (f _O) | - | 106.250 / 212.500 | MHz |
| Operating Temperature (T _{OPR}) | - | 0 ~ +85 | °C |
| Storage Temperature (T _{STG}) | - | -55 ~ +125 | °C |
| Overall Frequency Stability | (a) - (e) | ±50 max. | PPM |
| | (a) Frequency Tolerance | Inclusive of Overall Stability | - |
| | (b) Temperature Stability | Inclusive of Overall Stability (Operating Temperature) | - |
| | (c) Input Voltage Stability | Inclusive of Overall Stability (VDD ±5%) | - |
| | (d) Load Stability | Inclusive of Overall Stability (RL ±5%) | - |
| (e) Aging (@ 25°C) | ±3 max. | PPM/Y | |
| Current Consumption | - | 60 max. | mA |
| Rise Time (T _r) | - | 600 max. (20% to 80% of Waveform) | ps |
| Fall Time (T _f) | - | 600 max. (20% to 80% of Waveform) | ps |
| Offset Voltage | - | 1.2 ±0.1 | V |
| Output Voltage (P-P) | - | 400 ~ 800 | mV |
| Load | - | 100 | Ohms |
| Duty Cycle | - | 50 ±5 | % |
| Start-Up Time (T _S) | - | 10 max. | mS |
| Phase Jitter | (12KHz to 20MHz) | RMS: 1 max. | ps |

PACKAGE DIMENSIONS (mm)

Suggested Solder Pad Layout

| PIN CONNECTIONS | |
|-----------------|---|
| #1 | Tri-State (Enable High) |
| #2 | Frequency Select: NC or Vcc: 106.25MHz GND: 212.50MHz |
| #3 | Ground |
| #4 | Output |
| #5 | Complimentary Output |
| #6 | VDD |

| MARKING | |
|---------|----------|
| Line 1 | Oscilent |
| Line 2 | 920 |

PART NUMBER GUIDE

| Series Number | Frequency | Voltage Supply Option | Frequency Tolerance & Stability (max.) | Oper. Temp. (°C) | Duty Cycle | Pin #1 | Other |
|-----------------|---|-----------------------|--|------------------|------------|-----------|-------|
| 920 | - AM | - 3 | E | 1 | - T | TS | - 001 |
| Oscilent Series | Frequency Select: NC or Vcc: 106.25MHz GND: 212.50MHz | 3 = 3.3VDC | E = ±50 PPM | 1 = 0~+85 | T = 50±5% | Tri-State | - |

NOTE: - Deviations on all parameters available. Please consult Oscilent for details.

DEFINITIONS: - Click on the characteristic names above for definitions of that particular characteristic.

***STANDARDS:** - "Blank" part number selections indicate standard variables for that particular characteristic.

PACKAGING: - Standard tube packaging, add **-TR** for Tape/Reel. Click [here](#) for tape/reel specifications

Oscilent Corporation - CALL **949.252.0522**

Series No.: 920

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