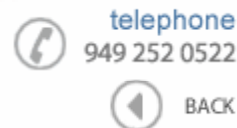


[查询"521-4.0M-320A"供应商](#)**Data Sheet**

Product Category: TXCO Surface Mount

| Series Number | Package | Description | Last Modified |
|---------------|----------------------------|----------------------------|---------------|
| 521 ~ 524 | 14 Pin DIP Low Profile SMD | HCMOS / TTL / Clipped Sine | Jan. 01 2007 |

FEATURES

- High stable output over wide temperature range
- 4.7mm height max low profile TCXO
- Industry standard DIP 14 pin lead spacing
- RoHs / Lead Free compliant

**OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS**

| PARAMETERS | CONDITIONS | | 521 | 522 | 523 | 524 | UNITS |
|-----------------------|------------------------|------|---|-------------------|-----------------|--------------|-------|
| Output | - | | TTL | HCMOS | Clipped Sine | Compatible* | - |
| Frequency Range | fo | | 1.20 ~ 100.0 | | 9.60 ~ 35.0 | 1.20 ~ 100.0 | MHz |
| Output | Load | | 10TTL Load or 15pF HCMOS Load Max. | | 10K ohm // 10pF | - | - |
| | Level | High | 2.4 VDC min. | VDD -0.5 VDC min. | 1.0 Vp-p min. | - | - |
| | | Low | 0.4 VDC max. | 0.5 VDC max. | | | |
| Frequency Stability | Vs. Temp Range | | See Table 1 | | | | - |
| | Vs. Input Voltage (5%) | | ±0.5 max. | | | | PPM |
| | Vs. Load | | ±0.3 max. | | | | PPM |
| | Vs. Aging (@+25°C) | | ±1.0 per year | | | | PPM |
| Input | Voltage | | +5.0 ±5% / +3.3 ±5% | | | | VDC |
| | Current | | 20 max. / 40 max. | | 3 max. | - | mA |
| Frequency Adjustment | - | | ±3.0 min. | | | | PPM |
| Rise Time / Fall Time | - | | 10 max. | | - | - | nS |
| Duty Cycle | - | | 50 ±10% max. | | - | - | - |
| Storage Temperature | (TSTG) | | -40 ~ +85 | | | | °C |
| Voltage Control Range | - | | 2.5 VDC ±2.0 Positive Transfer Characteristic | | | | - |

*Compatible (524 Series) meets TTL and HCMOS mode simultaneously

TABLE 1 - FREQUENCY STABILITY - TEMPERATURE TOLERANCE

| P/N Code | Temperature Range | Frequency Stability (PPM) | | | | | | | |
|----------|-------------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|
| | | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 |
| A | 0 ~ +50°C | x | x | x | x | x | x | x | x |
| B | -10 ~ +60°C | x | x | x | x | x | x | x | x |
| C | -10 ~ +70°C | O | x | x | x | x | x | x | x |
| D | -20 ~ +70°C | O | x | x | x | x | x | x | x |
| E | -30 ~ +60°C | | O | x | x | x | x | x | x |
| F | -30 ~ +70°C | | O | x | x | x | x | x | x |
| G | -30 ~ +75°C | | | x | x | x | x | x | x |
| H | -40 ~ +80°C | | | | | x | x | x | x |

| | |
|---|-------------------------|
| x | available all Frequency |
| O | avail up to 25MHz only |



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*Other temperature and frequency stabilities may be available. Check with Oscilent for details.

PACKAGE DIMENSIONS (mm)

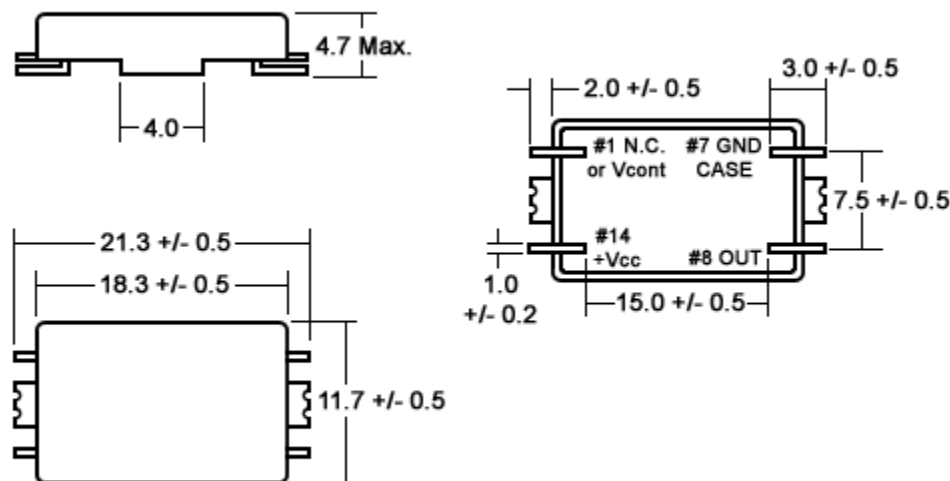


Figure 1) Bottom, Top, and Side Views

PART NUMBER GUIDE

| Series Number | Frequency | Voltage Supply Option | Frequency Stability (max.) | Operating Temp. (°C) | Frequency Deviation |
|--|---|------------------------|--|--|--|
| 522 | - 4.0 M | - 3 | 45 | H | - 5 |
| Oscilent 521 = TTL 522 = HCMOS 523 = Clipped Sine Wave 524 = Compatible | Enter your desired frequency e.g. 12.0M = 12.000MHz | 5 = 5VDC 3 = 3.3VDC | 15 = ±1.5 PPM 20 = ±2.0 PPM 25 = ±2.5 PPM 30 = ±3.0 PPM 35 = ±3.5 PPM 40 = ±4.0 PPM 45 = ±4.5 PPM 50 = ±5.0 PPM | A = 0 ~ +50 B = -10 ~ +60 C = -10 ~ +70 D = -20 ~ +70 E = -30 ~ +60 F = -30 ~ +70 G = -30 ~ +75 H = -40 ~ +80 | NC = No Connection (TCXO) 05 = ±5 PPM min. 10 = ±10 PPM min. |
| <p>NOTE: - Deviations on all parameters available. Please consult Oscilent for details.</p> <p>DEFINITIONS: - Click on the characteristic names above for definitions of that particular characteristic.</p> <p>*STANDARDS: - "Blank" part number selections indicate standard variables for that particular characteristic.</p> <p>PACKAGING: - Add -TR for Tape/Reel. Click here for tape/reel specifications</p> | | | | | |

Oscilent Corporation - CALL **949.252.0522**

Series No.: **521 to 524**

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