

BT2520 SERIES CLIPPED SINE VC/TCXO - 2.5 x 2.0 x 0.75mm

| | | | |
|-----------------------|---|-------------|-------------|
| Frequency Range | 13.000MHz to 52.000MHz | | |
| Frequency Stability | ±2.0 ppm max (Check with Factory for Tighter Tolerance Requests) | | |
| | ±2.5 ppm max (See Chart Below) | | |
| | ±0.2 ppm max | | |
| | ±0.2 ppm max | | |
| | ±1.0 ppm max | | |
| Supply Voltage ± 5% | 1.8V | 2.5V | 2.8V |
| Output | Clipped Sine | | |
| Output Load | 10kΩ // 10pF | | |
| Output Level | 0.8V p-p min | | |
| Current Consumption | 2.5mA max | | |
| Temperature Range | See Chart Below | | |
| Operating Storage | -55 °C to +125°C | | |
| Control Voltage | 0.9V ± 0.6V | 1.4V ± 1.0V | 1.4V ± 1.0V |
| Tuning Range | ±5.0 ppm min | | |
| Phase Noise @ 19.2MHz | 100Hz offset | -115dBc/Hz | |
| | 1kHz offset | -135dBc/Hz | |
| | 10kHz offset | -148dBc/Hz | |

FREQUENCY STABILITY vs. TEMPERATURE (■ - available) (▲ – conditional) (x – not available)

| Temp °C / ppm | ±0.5 | ±1.0 | ±1.5 | ±2.0 | ±2.5 |
|---------------|------|------|------|------|------|
| 0 ~ +55 | ■ | ■ | ■ | ■ | ■ |
| -10 ~ +60 | ■ | ■ | ■ | ■ | ■ |
| -20 ~ +70 | ■ | ■ | ■ | ■ | ■ |
| -30 ~ +85 | ▲ | ■ | ■ | ■ | ■ |
| -40 ~ +85 | ▲ | ▲ | ■ | ■ | ■ |

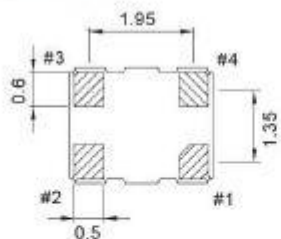
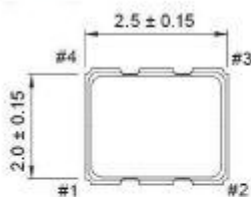
PART NUMBERING GUIDE

| Series | Pin 1 | Voltage | Stability vs. Temperature | Temp Range | Frequency |
|--------|-----------------------------------|-------------------------------------|---|---|-----------|
| BT2520 | Voltage Control =V N/C = Blank | 1.8V = 18 2.5V = 25 2.8V = 28 | ±2.5 = B ±2.0 = C ±1.5 = D ±1.0 = E ±0.5 =F | 0 ~ +55 °C = 05 -10 ~ +60 °C = 10 -20 ~ +70 °C = 20 -30 ~ +85 °C = 35 -40 ~ +85 °C = 45 | 19M200 |

Example P/N: BT3225 – V – 18 – C – 45 – 19M200

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MECHANICAL DRAWING



| Pad | Function |
|-----|--------------------------------|
| #1 | VCON:VC TCXO GND / NC: TCXO |
| #2 | GND |
| #3 | Output |
| #4 | VDD |

