

# KH1800TR

## High Stability 10 MHz Frequency Reference



### Features

- SC-Cut high Quality Crystal Based
- Excellent Frequency Stability
- Wide Operation Temperature Range
- 10MHz Sine Wave Output
- SMA Output Connector

### Applications

- Precision Frequency Standard
- Test & Measurement Equipment

| High Stability OCXO Frequency Reference with Sine Wave Output |           |      |      |      |                      |
|---|-----------|------|------|------|----------------------|
| Parameter   | min.      | typ. | max. | Unit | Condition            |
| Frequency   |           | 10   |      | MHz  |                      |
| Frequency stability   |           |      |      |      |                      |
| Initial tolerance @ +25°C                                     |           |      | ±300 | ppb  |                      |
| Operating temperature range                                   | -20       |      | 70   | °C   |                      |
| Frequency Stability   |           |      |      |      |                      |
| vs. operating temperature range                               |           |      | ±5   | ppb  | steady state         |
| vs. supply voltage variation (pushing)                        |           |      | ±10  | ppb  | VS ±5%               |
| vs. load change (pulling)                                     |           |      | ±10  | ppb  | RL ±10%              |
| Long term (aging) per day<br>(after 30 days operation)        |           |      | ±2   | ppb  |                      |
| Long term (aging) 1st year<br>(after 30 days operation)       |           | ±50  | ±200 | ppb  |                      |
| RF output   |           |      |      |      |                      |
| Signal waveform   | Sine wave |      |      |      |                      |
| Load RL   | 50        |      |      | Ω    | ±10%                 |
| Output level  | 3         |      |      | dBm  |                      |
| Harmonics   |           |      | -25  | dBc  |                      |
| Warm-up time @ +25°C  |           | 3    | 5    | min  | ffinal/f0 < ±0.1 ppm |
| Supply voltage VS   | 4.75      | 5.0  | 5.25 | V    |                      |
| Current consumption (@ +25°C)                                 |           |      | 300  | mA   | steady state         |
| Current consumption (warm-up)                                 |           |      | 800  | mA   |                      |
| Enclosure (LxWxH)   | 120       | 103  | 53   | mm   |                      |
| Weight (Power Adaptor excluded)                               | 350       |      |      | g    |                      |

\*\* Kit box includes frequency reference box, DC 5V power Adaptor, AC power cord & RF coaxial cable.  
 Specifications are subject to change without prior notice.  
 Photo shown is for reference only.



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