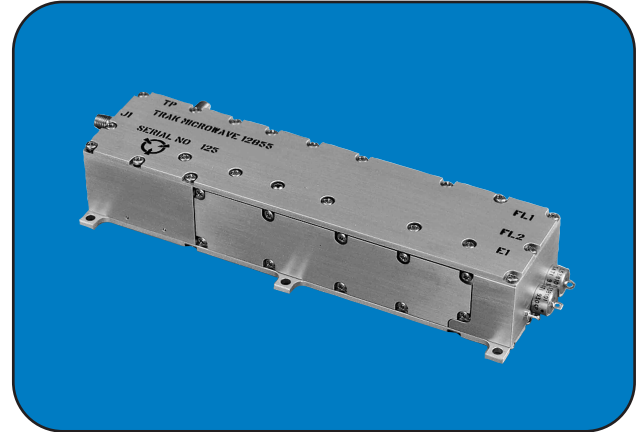


Oscillators
S-Level OCXO, 10.3 GHz
Model: OSC029



Features:

- Excellent Long Term Stability: ± 1.2 ppm over 10 years
- Low Spurious: - 95 dBc typical
- Low Phase Noise: - 95 dBc/Hz @ 2 kHz offset
- Space Qualified: 10 Years In-Orbit Life



Electrical Specifications

Operating Frequency:	10.3 GHz
Freq. Stability, Long Term:	± 1.2 ppm over 10 year life
Short Term Frequency Drift:	± 0.2 ppm (- 15 to + 65 °C)
Output Power:	+ 9 dBm \pm 1 dB (Port 1)
Output Power, Test Port:	- 5 dBm, nominal (Port 2)
VSWR:	1.5: 1, nominal
SSB Phase Noise (dBc/Hz, typical):	
Offset	
10 Hz	- 40
100 Hz	- 82
1 kHz	- 90
2 - 10 kHz	- 95
0.1 - 1 MHz	- 117
Spurious (typical):	- 95 dBc @ offsets \leq 500 MHz - 70 dBc @ offsets \geq 500 MHz
Harmonics:	- 30 dBc, maximum
DC Power: ^{Note 1}	
Oscillator	+ 15 \pm 0.2 V @ 80 mA, nominal (1.2 W)
Heater, Steady State	+ 16 \pm 0.6 V @ 120 mA, nominal (1.92 W)
Heater, Turn-on	+ 16 \pm 0.6 V @ 300 mA, maximum
Power Consumption: ^{Note 1}	3.12 W, nominal
In-Orbit Life:	10 years

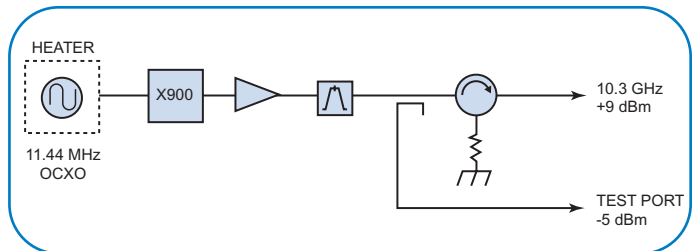
Note 1: These measurements are based on + 25 °C baseplate and vacuum conditions. Standard pressure measurements vary.

Environmental Specifications

Operating Temperature: - 15 to + 65 °C, baseplate
Environment: Space

Mechanical Specifications

Size (excluding connectors): 6.5 x 1.6 x 1.25 inches
165 x 41 x 32 mm
Weight: 16 oz (450 g), nominal
RF Connectors: SMA Female



Specifications subject to change without notice.



TRAK Microwave Corporation
E-Mail: sales@trak.com ■ www.trak.com
Ph: 813-901-7200 ■ US Toll Free: 1-888-283-8444
4726 Eisenhower Boulevard ■ Tampa, Florida 33634-6391 USA