

# Oscillators

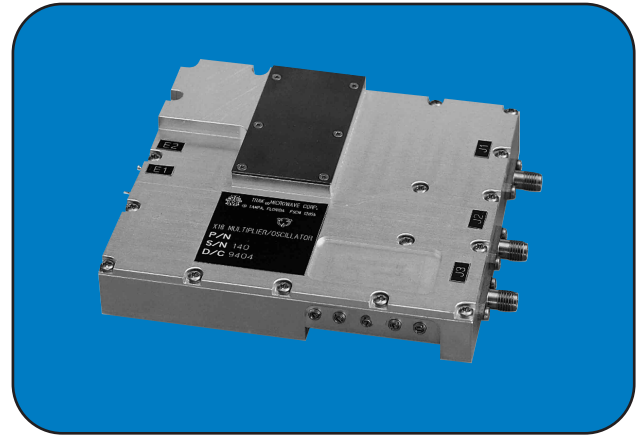
## S-Level Beacon Transmitter Source, 4 GHz

Model: OSC027



### Features:

- Excellent Long Term Stability:  
± 8 ppm over 18 years
- Good Temperature Stability:  
± 0.8 ppm per any + 25 °C
- IF & RF Outputs: UHF & S-Band
- Fully Redundant OCXO Function
- Low Power Consumption: < 2 watts



### Electrical Specifications

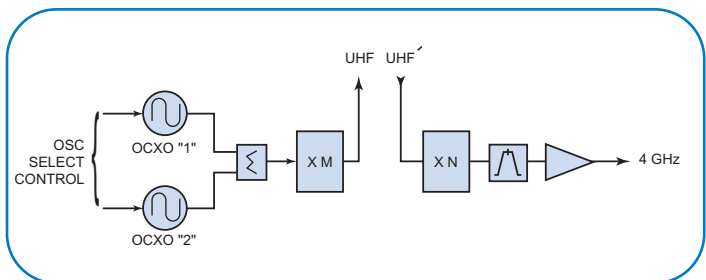
	RF Output
Operating Frequency:	4 GHz
Long Term Stability:	± 8 ppm/18 yr life
Temperature Stability:	< ± 0.8 ppm over any 25 °C variation
Power Level:	+ 4 dBm, nominal
Power Variation:	± 0.8 dB, maximum
Output VSWR:	1.68:1, maximum
Spurious:	- 65 dBc, nominal
Harmonics:	- 65 dBc, nominal
SSB Phase Noise (dBc/Hz, typical):	
Offset	
10 Hz	- 50
1 kHz	- 110
10 kHz	- 120
1 MHz	- 124
DC Power:	
Surge	+ 9 ± 0.75 V @ 330 mA, nominal
Steady State (Vacuum)	+ 9 ± 0.75 V @ 220 mA, nominal

### Environmental Specifications

Operating Temperature: - 20 to + 75 °C, baseplate  
Environment: Space

### Mechanical Specifications

Size (excluding connectors): 4 x 3.6 x .88 inches  
102 x 91 x 22 mm  
Weight: 12.5 oz (354 g), nominal  
RF Connectors: SMA-Female, Removable  
DC Connector: DC Feedthroughs



Specifications subject to change without notice.