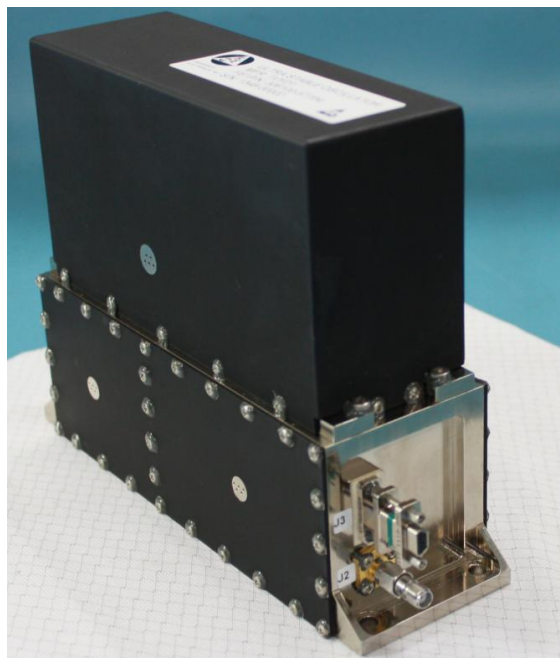


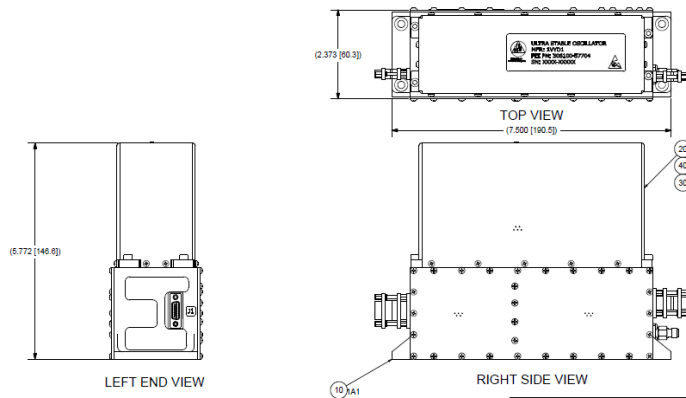
MODEL FE-2242

**Ultra High Stability, Space Qualified,
Low Aging, Low Environmental
Sensitivity, Oven Controlled Crystal
Oscillator**

PARAMETER		UNITS
Standard Frequency	10.0	MHz
Output Signal Into 50 ohms	11±1.5	dBm
VSWR	15	dB
Harmonics	-30	dBc
Spurs	-100	dBc
Input Power	22 – 34	V
Warm-up power	<13	W
Steady State Power (air, + 25°C)	5.2 – 6.0	W
Steady State Power (vacuum, -25°C)	4.5 – 5.0	W
Dimensions, L x H x W	7.5 x 5.8 x 2.5	inches
Weight	3.3	lb
Operating Temperature Range	-25 to +65	°C



PACKAGE OUTLINE



Frequency Stability (Allan Deviation)		
1 sec	2 x 10E-13	
10 sec	2 x 10E-13	
100 sec	3 x 10E-13	
1000 sec	6 x 10E-13	
Static Phase Noise		
@ 1 Hz offset	-120	dBc
@ 10 Hz offset	-135	dBc
@ 100 Hz offset	-140	dBc
@ 1 kHz offset	-145	dBc
@ 10 kHz offset	-145	dBc
@ 100 kHz offset	-145	dBc
Initial accuracy-after one year @ 25°C	±0.3	ppm
Aging-10 years including temperature after one year	±0.2	ppm
Frequency drift	< 1 x 10E-10	/day
Frequency Thermal Sensitivity	< 1 x 10E-12	/°C
Frequency Voltage Sensitivity	< 2 x 10E-13	/V
Frequency Magnetic Sensitivity	< 3 x 10E-12	/Gauss
Frequency G Sensitivity per Axis	< 6 x 10E-10	/g

Rr