



Space Qualified Hi-Rel Free Running DRO



FEATURES:

- Hermetically sealed Kovar Packaging (1.90" x 1.00" x 0.80")
- 100K RAD-HARD
- Full element of evaluation and device-level environmental screening, MIL-PRF/DTL, ESA and NASA
- According to different classes and levels of military and aerospace agencies requirements MIL-PRF-38534, ASA, ESA, JAXA, ISRO, CNSA and RFSA.
- Part selection program complies with NPLS, ESA, JAXA and EEE "QML & OML" regulations

SPECIFICATIONS:

MD Model Number	DRO-1080-XX.XX (Hermetic Seal); DRO-1087-XX.XX (Hermetic Seal & RAD-HARD Parts)
Single Frequency	1.00 -36.00 GHz (Where XX.XX of model number is frequency in GHz)
Power Output	+ 13 dBm; Higher power optional
Load VSWR	2.0:1.0 Max
Harmonics	-25 dBc, TYP
Spurious	-85 dBc
Phase Noise	-90 dBc/Hz @ 10 kHz, TYP
Frequency Stability	2.5 ppm/°C
Pushing	10 ppm/V
Pulling	+/- 30 ppm @ 1.75:1 VSWR)
Operating Temperature	-40°C to +85°C Standard
Modulation Bandwidth	2 MHz (V-tune port)
Tuning Range	+/- 2.0 MHz, TYP
Tuning Voltage (at Fo)	0-12 V (optional)
Supply Voltage	+8 VDC min @90mA, TYP
Environmental Specs	
Shock	MIL-STD-883, Method 2002, 1,500g
Acceleration	MIL-STD-883, Method 2001, 5,000g
Vibration	MIL-STD-883, Method 2026, 44.2 Grms
Size	1.90" x 1.00" x 0.80"

DESCRIPTION:

MD has been providing oscillators to the space industry since 2004. MD's space heritage includes Aura Satellite, H-IIB and MetOp-SG Study Program. MD performs assembly, testing, screening and qualification testing for free-running DROs according to different classes and levels of military and aerospace agencies specifications. MD is in certified under the new AS9100 Rev. D quality management system.

OUTLINE DRAWING:

