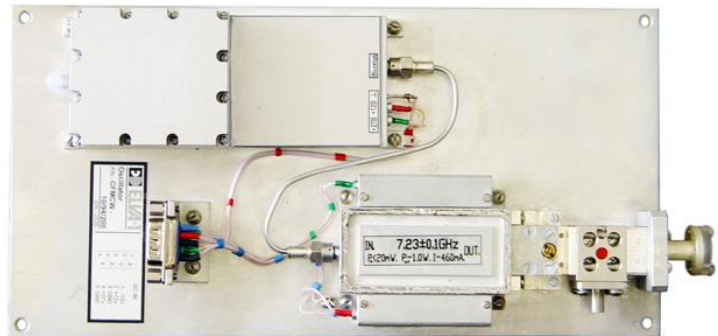


- High power output levels
- Wide tuning range

## Applications

- Sweepable Power sources
- Spectroscopy/Radiometry
- Reflectometer, Interferometer
- FMCW radars



## Description

Complete sweepable IMPATT oscillators consist of VCO 6-8 GHz, 50 mW output and IAFM multiplier. The stability would be increased upon request using a temperature stabilization scheme.

## Specifications

Model Number	OMIL -28	OMIL -22	OMIL -19	OMIL -15	OMIL -12	OMIL -10	OMIL -08	OMIL -06
<b>Frequency Band</b>	Ka	Q	U	V	E	W	F	D
<b>Frequency Range, GHz*</b>	26.5-40	33-50	40-60	50-75	60-90	75-110	90-140	110-180
<b>Maximum Power Output**</b>	150	150	120	100	50	30-50	15-30	10-20
<b>Input signal power, mW</b>	30-50	30-50	30-50	30-50	30-50	30-50	30-50	30-50
<b>Multiplication factor</b>	5-8	6-10	7-10	8-13	10-15	14-18	18-24	19-25
<b>DC Power, V/A</b>	+12/0.6 -12/0.01 +50/0.15	+12/0.6 -12/0.01 +45/0.15	+12/0.6 -12/0.01 +45/0.15	+12/0.2 -12/0.01 +35/0.15	+12/0.6 -12/0.01 +35/0.2	+12/0.6 -12/0.01 +27/0.2	+12/0.6 -12/0.01 +24/0.2	+12/0.6 -12/0.01 +24/0.26

\* Operation bandwidth up to 10% is available.

\*\* Values are presented for the middle frequency of the frequency band.

## Common specifications

Output power flatness within the 1% band width (max)	1.5 dB
Rejection of adjacent harmonics (min)	40 dB
VSWR	1:1.3
AM noise inserted (max)	-130 dB/Hz (white noise)
Sweep time, min	50 $\mu$ s
Control voltage	+2...+22 V