

DRFA10Yxx

Product Overview

VCOs (Voltage Controlled Oscillators) are analog devices and are suitable for general purpose applications (raster scan, or random access...). The VCO can be modulated (amplitude) from an analog external signal. The frequency is externally controlled by an analog signal. An external power amplifier will be required to generate the RF power levels required by the AO device.

Features

- Variable frequency [10..400MHz]
- AM control (Analog)
- FM control (Analog)
- Rack available with 2 outputs (XY deflection)
- RoHS

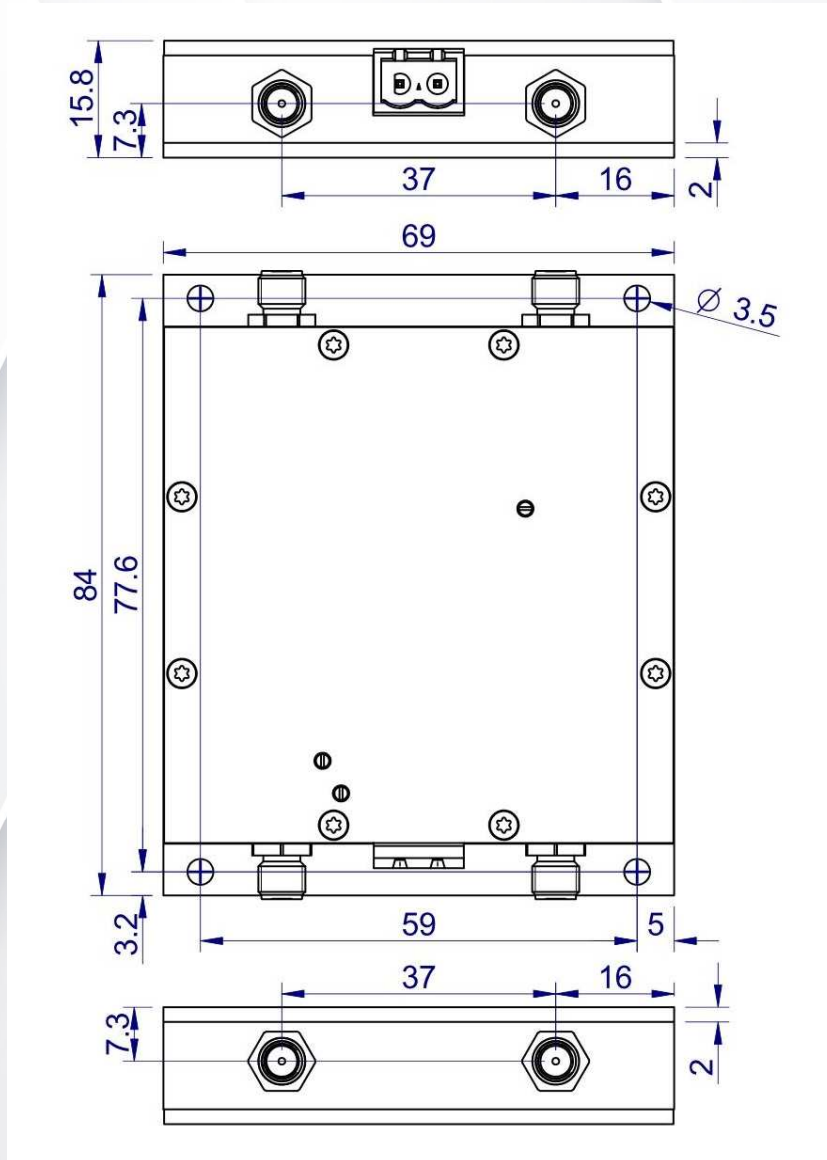


SPECIFICATIONS (T=25°C)

Parameter	Units	DRFAxx
Carrier frequency	MHz	50-110, 60-150, 90-210, 150-300, 180-470 Up to one octave, Matched to AO device at factory
Frequency Stability	KHz/°C	Nom +/- 50 to 100
Frequency step / Accuracy	ppm	Continuous / typ 50
Commutation/sweeping time	µs	≤ 1 (from Fmin to Fmax or Fmax to Fmin)
Output RF Power (@1dB compression)	dBm	Nom - 30 to 0 (to be associated with AA Amplifier)
Power supply	VDC VAC	24, nom 0.15A (OEM version) 110-230 (Laboratory version)
Frequency Input Control	V	Analog 0-10 / 1kΩ (linearity Nom +/- 5 %)
Modulation Input Control AM	V	Analog 0-5 / 50 Ω
Rise Time / Fall time (10-90%)	ns	Nom 10
Harmonics	dBc	Nom > 20
Input / Output impedance	Ω	50
VSWR		< 1.5/1
Extinction Ratio	dB	nom 45 Option High Extinction on request
Input / Output Connectors		SMA / SMA
Size / Weight		OEM: 84 x 69 x 15.8 mm ³ / 150 g Lab version: 310 x 250 x 105 mm ³ / 3.8 Kg
Heat Exchange		Conduction through baseplate for OEM version
Operating Temperature	°C	10 to 40 (max Tcase 50 for OEM version)
Storage Temperature	°C	-40 to +70 Non condensing
Laboratory version		For laboratory version, the frequency source + the convenient amplifiers are integrated in a box supplied with 110-230 VAC. A switch on the front panel allows the user to select both operating modes: CW mode: internal CW modulation of RF power with front panel cursor EXT mode: external amplitude modulation controlled through external modulation input

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OUTLINE DRAWING, mm (DRFA10Yxx 24VDC)



DRFA10Y – OEM version



DRFA10Y 1X – Laboratory version



DRFA10Y 2X – Laboratory version

