

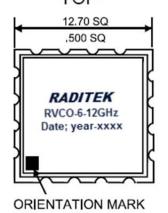
Voltage Controlled Oscillator, 6.0-12.0GHz OdBm Output Power, 15Volts DC Voltage, Surface Mount Package

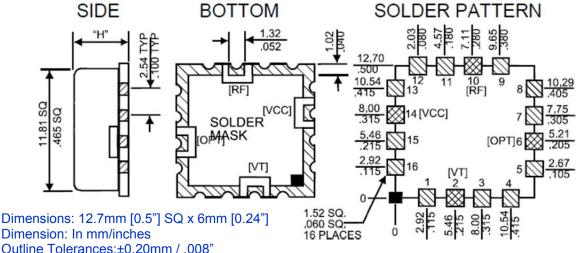
Features:

- Frequency up to 12.0 GHz
- Micro-strip Line Topologic
- Low Phase Noise
- Custom options available Applications
- Telecommunications
- High Performance Radio
- Base Stations
- Instrumentation TOP



Pad #	Functions			
2	Tuning Voltage			
6	Optional			
10	RF-Output			
14	Supply Voltage			
1,3,4,7,8,9,11,12,13,15 & 16	Ground			





RVCO-6.0-12.0-0dBm-15V-S-r24 is a VCO designed to meet the requirements for a variety of, applications. The unit main characteristics are High Frequency Band, Low Noise and Linear Tuning. Components are selected for high-Q and tight tolerances

It is developed and manufactured in its ISO9000 certified facility. RF-simulation (CAE), automated test-equipment (Agilent VCO/PLL-Analyzer) and statistical process control (SPC) are integral part of R&D and manufacturing – which ensures minimal process variances and a high degree of repeatability.

Order Examples: RVCO-6.0-12.0-15V-S-r24

Description: (Voltage Controlled Oscillator, 6.0-12.0GHz, (-10 to 0) dBm Output Power, 15Volts DC Voltage, Surface Mount Package)

Electrical Specification								
PARAMETER	COMMENTS, EXAMPLES	SYMBOL	MIN	TYP	MAX	UNIT		
Frequency Range	Currently available in 0.5 SQ inch-package	fo	6000		12000	MHz		
Tuning Voltage		Vt		0~5	0~15	V		
Supply Voltage	Typical Voltage 5V, Stationary up to 12V	Vcc		5	12	V		
Supply Current	Dependent on Frequency and Output Power	Icc		150		mA		
Output Power	Output Power Tolerance is typ. ±5dBm	Pout	-10	-5	0	dBm		
Harmonic Suppression	Dependent on Tuning Range and Freq	a(2fo)		-10		dBc		
Sub-harmonic Suppression	Dependent on Tuning Range and Freq	a(fo/2)		-20		dBc		
Pushing	Dependent on Freq, Tuning R.	df/dVcc		3.0		MHz/V		
Pulling	Dependent on Freq, Output Power and Circuit	df/dZL		2.5		MHz		

RVCO-6.0-12.0-15V-S-r24

Specifications may be subject to change

03/01/18

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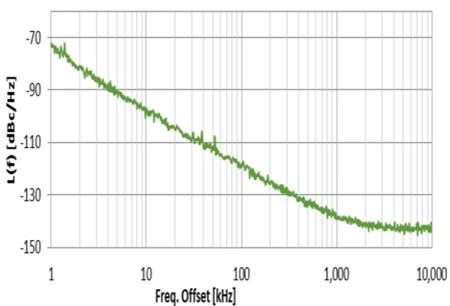


Voltage Controlled Oscillator, 6.0-12.0GHz OdBm Output Power, 15Volts DC Voltage, Surface Mount Package

- 1. Load Impedance is 50 Ω .
- 2. Operating temperature range is typically 0°C...+85°C.
- 3. The package is non-hermetic. Substrate is glass-reinforced laminate; the cover is folded nickel-silver.
- 4. Bypass-capacitors (ceramic) from Vcc to Ground are recommended: 1nF||50pF.
- 5. Customized specifications may deviate from this General Specification.
- 6. Phase-noise performance depends on the individual specification. Phase Noise is strongly dependent on (a) frequency (b) supply voltage and (c) tuning range.
- 7. The phase noise graph (to right) shows the typical characteristic.
- 8. The sample was measured at 5V supply and have -2dBm output power.

Ultra-Low Phase Noise-VCO 6500 MHz ±1%

SSB Phase Noise



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