

# WaveSources

Reno, Nevada 775-322-0968

V-3074-010-12

Surface Mount Voltage Controlled Oscillator

2974 - 3174 MHZ

Electrical Specifications, Test Data @ 25°C Subject to change without notice

PARAMETER	TEST CONDITIONS	UNITS	MIN	TYP	MAX
FREQUENCY RANGE		MHZ	2974.0		3174.0
TUNING VOLTAGE <sup>3</sup>		V	1.0		12.0
MOD SENSE <sup>1</sup>		MHZ/V	10		42
OUTPUT POWER <sup>1,2</sup>		dBm		4.0	
PUSHING	VCC 11.75 – 12.25	MHZ/V		<2.5	5
PULLING	@12db RL, All Angles	MHZ		<11.0	15.0
POWER FLATNESS <sup>1,2</sup>		dBm			+/-3
HARMONICS <sup>ALL</sup>		dBc		<-22	-12
SPURIOUS		dBc			-70
PHASE NOISE	SSB @1KHZ	dBc/HZ		-66	-60
	SSB @10KHZ	dBc/HZ		-96	-90
	SSB @100KHZ	dBc/HZ		-116	-110
	SSB @1000KHZ	dBc/HZ		-133	-128
TEMP RANGE		°C	-20		65
TEMP DRIFT		KHZ/°C			
VCC		V	+11.75	+12.0	+12.25
ICC		MA			35
TUNE CAPACITANCE		PF			50

1. All data specified are with a 50 Ohm load termination.
2. Power Flatness is specified @ MIN, MAX frequencies, and Temp Range.
3. Guaranteed to Operate at 0 and 15 volts.