

WaveSources

Reno, Nevada 775-322-0968

V-595-010-5

Surface Mount Voltage Controlled Oscillator

590 - 600 MHZ

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

PARAMETER	TEST CONDITIONS	UNITS	MIN	TYP	MAX
FREQUENCY RANGE		MHZ	590.0		600.0
TUNING VOLTAGE ³		V	0.5		4.5
MOD SENSE ^{1,4}		MHZ/V	7	9	18
OUTPUT POWER ^{1,2,4}		dBm		0.0	
PUSHING	VCC 4.75 – 5.25	MHZ/V		<0.5	1.0
PULLING	@12db RL, All Angles	MHZ		<0.8	1.0
POWER FLATNESS ^{1,2}		dBm			+/-2
HARMONICS ^{ALL}		dBc		-12	-10
SPURIOUS		dBc			-70
PHASE NOISE ⁴	SSB @1KHZ	dBc/HZ		-80	-76
	SSB @10KHZ	dBc/HZ		-112	-106
	SSB @100KHZ	dBc/HZ		-132	-126
	SSB @1000KHZ	dBc/HZ		-145	-142
TEMP RANGE		°C	-30		+75
TEMP DRIFT		KHZ/°C			
VCC		V	+4.75	+5.0	+5.25
ICC		MA		14	20
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 10 volts.
4. Specified @ MIN, MAX frequencies.