

WaveSources

Reno, Nevada 775-322-0968

V-490-010-5

Surface Mount Voltage Controlled Oscillator

460 - 520 MHZ

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

PARAMETER	TEST CONDITIONS	UNITS	MIN	TYP	MAX
FREQUENCY RANGE		MHZ	460.0		520.0
TUNING VOLTAGE ³		V	0.5		4.5
MOD SENSE ¹		MHZ/V	10		24
OUTPUT POWER ^{1,2}		dBm		2.0	
PUSHING	VCC 4.75 – 5.25	MHZ/V		<1.0	2.0
PULLING	@12db RL, All Angles	MHZ		<1.0	2.0
POWER FLATNESS ^{1,2}		dBm			+/-2
HARMONICS ^{ALL}		dBc		-10	-8
SPURIOUS		dBc			-70
PHASE NOISE	SSB @1KHZ	dBc/HZ		-74	-71
	SSB @10KHZ	dBc/HZ		-104	-101
	SSB @100KHZ	dBc/HZ		-124	-121
	SSB @1000KHZ	dBc/HZ		-144	-141
TEMP RANGE		°C	-40		+75
TEMP DRIFT		KHZ/°C			
VCC		V	+4.75	+5.0	+5.25
ICC		MA			16
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.