

# WaveSources

Reno, Nevada 775-322-0968

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V-0830-010-5

Surface Mount Voltage Controlled Oscillator

810 - 850 MHZ

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

PARAMETER	TEST CONDITIONS	UNITS	MIN	TYP	MAX
FREQUENCY RANGE		MHZ	810.0		850.0
TUNING VOLTAGE <sup>3</sup>		V	0.3		4.7
MOD SENSE <sup>1</sup>		MHZ/V	7		13
OUTPUT POWER <sup>1,2</sup>		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 <sup>1,2</sup>		dBm			+/-2
HARMONICS <sup>ALL</sup>		dBc		-15	-12
SPURIOUS		dBc			-70
PHASE NOISE	SSB @1KHZ	dBc/HZ		-76	-74
	SSB @10KHZ	dBc/HZ		-104	-102
	SSB @100KHZ	dBc/HZ		-124	-122
	SSB @1000KHZ	dBc/HZ		-140	-138
TEMP RANGE		°C	-20		65
TEMP DRIFT		KHZ/°C		75	150
VCC		V	+4.75	+5.0	+5.25
ICC		MA			15
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.