

VCO-111/111TC

Nominal Operating Parameters



Parameter	Specification			Unit	Condition
	Min	Typ	Max		
General Performance					
Frequency Range	1500		2725	MHz	100% Production Tested
Tuning Voltage :					
1500MHz	0	0.8		Vdc	100% Production Tested
2725MHz		18.5	20	Vdc	100% Production Tested
Tuning Sensitivity:					
1500MHz	107	142.7	178.3	MHz/V	100% Production Tested
1806.25MHz	57.2	76.2	95.3	MHz/V	100% Production Tested
2112.5MHz	69.4	92.5	115.7	MHz/V	100% Production Tested
2418.75MHz	54.6	72.9	91.1	MHz/V	100% Production Tested
2725MHz	27.6	36.8	46	MHz/V	100% Production Tested
Output Power	10	12	16	dBm	100% Production Tested
Output Phase Noise:					
10kHz		-78	-70	dBc/Hz	100% Production Tested
100kHz		-100	-92	dBc/Hz	100% Production Tested
1000kHz		-122	-116	dBc/Hz	100% Production Tested
Power Supply	14.75	15	15.25	V	100% Production Tested
Supply Current		19	21	mA	100% Production Tested
Harmonic Suppression:					
2nd Harmonic		-15	-10	dBc	100% Production Tested
3rd Harmonic		-15	-10	dBc	100% Production Tested
Spurious (Non-Harmonic)			-80	dBc	
Frequency Pushing – 14.75V to 15.25V		5	10	MHz p-p	
Frequency Pulling – 22dBRL		25	35	MHz p-p	
Output Impedance		50		Ω	
Modulation:					
Bandwidth	10000	20000		kHz	
Input Impedance		0.05		k Ω	

Package: TO-8 (Cir), 0.504 x 0.504 x 0.27 inches

VCO-111 Temperature Range: 0°C to 70°C

VCO-111TC Temperature Range: -55°C to 100°C

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