

Microwave Voltage Controlled Oscillators

Typical Specifications—50 Ω System

Model	Frequency Range MHz	Tuning Voltage Range Volts	Power Output dBm	Power Output Variation ±dB	Modulation Sensitivity Min.-Max. MHz/V	Phase Noise Offset at 10kHz/100kHz dBc/Hz	Harmonic Suppression dBc	Pushing MHz/V	Pulling @1.67:1 VSWR MHz	DC Bias	
										Voltage Volts	Current mA
Oscillator available in TO-8, SMTO-8 or CougarPak®											
OC150	85-150	0-20	10.0	2.0	2-8	-100/-120	-8	2.0	2.0	15.0	35
OC200	100-200	0-20	10.0	3.0	2-10	-103/-117	-10	0.5	1.0	15.0	35
OC300	150-300	0-20	10.0	2.0	5-20	-95/-115	-8	2.0	2.0	15.0	35
OC321	260-320	0-5	10.0	2.0	10-20	-92/-115	-12	5.0	5.0	5.0	18
OC400	200-400	0-20	10.0	2.0	10-30	-90/-105	-10	3.0	5.0	15.0	35
OC500	300-500	0-20	10.0	2.0	10-30	-90/-105	-10	3.0	5.0	15.0	35
OC551	450-550	0-5	0.0	3.0	15-40	-92/-115	-12	6.0	10.0	5.0	18
OC600	300-600	0-20	10.0	2.0	10-30	-90/-105	-10	5.0	12.0	15.0	35
OC700	500-700	0-20	10.0	2.0	15-45	-90/-105	-10	5.0	15.0	15.0	35
OC800	400-800	0-20	10.0	2.0	15-45	-90/-105	-10	5.0	25.0	15.0	35
OC910	700-900	0-5	0.0	3.0	25-85	-85/-108	-12	8.0	10.0	5.0	18
OC1000	500-1000	0-20	10.0	2.0	15-55	-90/-105	-10	5.0	25.0	15.0	35
OC1200	800-1200	0-20	10.0	2.0	30-100	-80/-100	-10	10.0	25.0	15.0	35
OC1500	500-1500	0-(-20)	5.0	3.0	40-125	-85/-107	-12	25.0	50.0	5.0	35
OC1510	1200-1500	0-5	0.0	3.0	60-200	-82/-112	-12	6.0	10.0	5.0	18
OC1600	800-1600	0-20	13.0	3.0	15-100	-90/-110	-12	5.0	20.0	15.0	60
OC1610	1400-1600	0-5	0.0	3.0	60-175	-80/-110	-12	6.0	10.0	5.0	18
OC1810	1600-1800	0-5	0.0	3.0	60-165	-85/-108	-12	8.0	10.0	5.0	18
OC1850	1250-1850	0-15	11.5	3.0	40-70	-78/-107	-16	4.0	8.0	15.0	57
OC2000	1350-2000	0-15	10.0	3.6	40-75	-78/-107	-12	5.0	10.0	15.0	55
OC2001	1000-2000	0-20	10.0	3.0	38-120	-85/-110	-10	13.0	12.0	15.0	55
OC2560	1360-2560	0-20	10.0	3.0	50-125	-85/-108	-10	5.0	30.0	15.0	60
OC2800	1900-2800	0-15	10.0	3.0	49-112	-75/-105	-12	11.0	23.0	15.0	60
OC3400	2700-3400	0-15	10.0	2.0	75-115	-80/-105	-12	25.0	35.0	15.0	60
OC4002	2000-4000	0-20	11.0	3.0	43-267	-85/-106	-15	8.0	32.0	15.0	60
OC4500	3200-4500	0-15	12.0	2.0	120-3100	-80/-102	-19	17.0	47.0	15.0	57
Oscillator available in TO-8B, SMTO-8B or CougarPak®											
OR2001	1400-2100	0-15	10.0	2.0	40-70	-92/-118	-10	5.0	10.0	(-5.0)	65
OR2600	1900-2600	0-15	10.0	2.0	40-70	-92/-118	-10	5.0	10.0	(-5.0)	65
OR3700	3100-3800	0-15	5.0	2.0	50-150	-89/-110	-10	20.0	20.0	(-5.0)	70
OR4400	3500-4400	0-15	5.0	2.0	50-150	-89/-110	-10	20.0	20.0	(-5.0)	70
Oscillator available in SMTO-8 or CougarPak®											
OS5100	4300-5100	0-15	1.0	1.5	50-85	-85/-108	-12	10.0	13.0	5.0	25
OS6100	4700-6100	0-15	0	2.0	70-150	-80/-102	-12	10.0	15.0	5.0	26
OS6500	5000-6500	0-15	1.0	2.0	80-160	-80/-102	-17	15.0	15.0	5.0	26
OS6700	5400-6700	0-15	0	2.0	80-180	-75/-100	-17	10.0	20.0	5.0	25
OS7700	5700-7700	0-15	2.0	2.0	70-250	-75/-100	-17	10.0	20.0	5.0	25
OS8600	6500-8600	0-15	1.0	2.0	90-250	-70/-95	-20	10.0	40.0	5.0	25
OS8900	6900-8900	0-15	1.0	2.0	100-270	-70/-95	-25	21.0	47.0	5.0	24



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Model	Frequency Range MHz	Tuning Voltage Range	Power Output	Power Output Variation	Modulation Sensitivity Min.-Max.	Phase Noise	Harmonic Suppression	Pushing	Pulling	DC Bias	
		Volts	dBm	±dB	MHz/V	Offset at 10kHz/100kHz dBc/Hz	dBc	MHz/V	@1.67:1 VSWR MHz	Voltage Volts	Current mA
Oscillator with internal MMIC amplifier available in SMTO-8 or CougarPak®											
OAS5100	4300-5100	0-15	13.0	2.0	50-85	-84/-108	-22	10.0	0.1	5.0	94
OAS6100	4700-6100	0-15	10.0	2.0	70-150	-80/-102	-25	10.0	0.3	5.0	95
OAS6500	5000-6500	0-15	13.0	2.0	80-160	-80/-102	-25	8.0	0.35	5.0	94
OAS6700	5300-6700	0-15	10.0	2.0	80-180	-75/-100	-30	10.0	0.5	5.0	95
OAS7700	5700-7700	0-15	10.0	2.0	70-250	-75/-100	-30	10.0	0.5	5.0	95
OAS8600	6500-8600	0-15	10.0	2.0	90-250	-70/-95	-30	10.0	0.5	5.0	95
OAS8900	6900-8900	0-15	10.0	2.0	100-270	-70/-95	-30	21.0	0.5	5.0	95

Model	Frequency Range MHz	Tuning Voltage Range	Output Power	Output Power Variation	Modulation Sensitivity Min.-Max.	Phase Noise	Fractional/Integer Harmonic Suppression	Pushing	Pulling	Settling Time	DC Bias	
		Volts	dBm	±dB	MHz/V	Offset at 10kHz/100kHz dBc/Hz	dBc	MHz/V	@1.67:1 VSWR MHz	PTD@1us ref. to 1 sec. ±MHz	Voltage Volts	Current mA
Oscillator, Amp, Filter and Voltage Regulator in 2- and 3-Stage CougarPak®												
OA2CP1001	500-1000	0-(-12)	15.0	2.0	30-60	-75/-105	NA/-15	0.3	1.0	1.0	15.0	250
OA2CP1450	850-1450	0-(-12)	15.0	2.0	60-100	-75/-105	NA/-15	0.3	2.0	1.0	15.0	250
OA2CP2001	1000-2000	0-(-15)	15.0	2.0	50-150	-70/-100	NA/-15	0.3	2.0	1.0	15.0	250
OA2CP4001	2000-4000	0-(-12)	15.0	2.0	100-350	-65/-95	NA/-15	0.3	3.0	2.0	15.0	250
OA2CP6001	4000-6000	0-(-12)	15.0	2.0	75-225	-65/-95	NA/-25	0.3	3.0	2.0	15.0	250
OA2CP9001	6000-9000	0-(-12)	15.0	2.0	75-400	-65/-95	NA/-30	0.3	3.0	2.0	15.0	250
OA2CP11001	8000-11000	0-(-12)	15.0	2.0	200-400	-70/-100	-25/-30	0.3	3.0	3.0	15.0	250
OA2CP12001	8000-12000	0-(-12)	17.0	5.5	280-630	-75/-100	-35/-40	0.1	0.5	3.0	15.0	220
OA2CP12500	9000-12500	0-(-12)	15.0	2.0	150-450	-65/-95	-25/-30	0.3	3.0	3.0	15.0	250
OA3CP18001	12000-18000	0-(-12)	15.0	2.0	150-750	-55/-85	-15/-30	0.3	3.0	4.0	15.0	350