

MACOM Frequency Generation Products

Leading-edge solutions for challenging communications needs

MACOM voltage controlled oscillators (VCOs) generate frequency in aerospace and defense, point-to-point microwave backhaul, and other commercial communications applications. IC VCOs support a variety of applications operating between the 500 to 14400 MHz frequency range.



Featuring low phase noise, stable performance over temperature, low power consumption, and highly linear tuning, MACOM's VCOs provide leading edge solutions for challenging communications needs.

VCOs

- > Low phase noise
- > Wide tuning range
- > Low power consumption
- > Bandwidths greater than 10%
- > RoHs compliant package

NLTL GaAs Comb Generators

- > Superior phase noise performance up to -18 dBc/Hz better than a SRD
- > Usable harmonics out to 50 GHz
- > Available in SMT or connectorized packages



Voltage Controlled Oscillators (VCOs)

Part Number	Min Freq (MHz)	Max Freq (MHz)	Phase Noise at 10 kHz Offset (Vt=5V)(dBc/Hz)	Phase Noise at 100 kHz Offset (Vt=5V)(dBc/Hz)	Pout at Fo (dBm)	DC Current (mA)	Package
MAOC-009259	5700	6400	-93	-117	12	190	5 mm PQFN-32
MAOC-009260	6100	7000	-92	-117	8.5	205	5 mm PQFN-32
MAOC-009261	7100	7900	-93	-116	10	180	5 mm PQFN-32
MAOC-009262	7400	8210	-92	-117	14	170	5 mm PQFN-32
MAOC-009263	7800	8700	-90	-115	10.5	180	5 mm PQFN-32
MAOC-010334	8400	9250	-88	-115	10	168	5 mm PQFN-32
MAOC-109082	8714	9450	-90	-117	9	90	5 mm PQFN-32
MAOC-009264	8800	9800	-88	-115	9	185	5 mm PQFN-32
MAOC-009871	9200	10200	-86	-113	7	185	5 mm PQFN-32
MAOC-009265	9400	10800	-86	-113	8.5	175	5 mm PQFN-32
MAOC-109173	8805	9542	-88	-117	9	90	5 mm PQFN-32
MAOC-009266	10200	11300	-87	-114	8.5	200	5 mm PQFN-32
MAOC-009872	11000	11800	-83	-112	7	165	5 mm PQFN-32
MAOC-009267	11200	12600	-82	-112	6	175	5 mm PQFN-32
MAOC-009269	11400	12800	-83	-110	5	180	5 mm PQFN-32
MAOC-009270	12200	13800	-78	-107	6.5	165	5 mm PQFN-32
MAOC-009268	12700	14200	-79	-108	9	165	5 mm PQFN-32
MAOC-011027	13400	14400	-79	-108	8	205	5 mm PQFN-32
MAOC-114850	14500	15200	-84	-108	3.5	90	5 mm PQFN-32

NLTL GaAs Comb Generators

Part Number	Power Min (dBm)	Power Max (dBm)	Output Harmonics 1	Output Harmonics 2	Output Harmonics 3	Package
MLPNC-7102-SMA800	21 @ 400 MHz	23 @ 600 MHz	> -8 @ 4 GHz	> -16 @ 12 GHz	> -20 @ 20 GHz	SMA800
MLPNC-7102-SMT680	21 @ 400 MHz	23 @ 600 MHz	> -8 @ 4 GHz	> -16 @ 12 GHz	> -20 @ 20 GHz	SMT680
MLPNC-7103-SMA800	21 @ 800 MHz	23 @ 1300 MHz	> -5 @ 6 GHz	> -15 @ 18 GHz	> -20 @ 30 GHz	SMA800
MLPNC-7103-SMT680	21 @ 800 MHz	23 @ 1300 MHz	> -5 @ 6 GHz	> -15 @ 18 GHz	> -20 @ 30 GHz	SMT680
MLPNC-7100S1-SMA800	18 @ 75 MHz	24 @ 250 MHz	> -15 @ 1 GHz	> -18 @ 2 GHz	> -24 @ 4 GHz	SMA800
MLPNC-7100S1-SMT580	18 @ 75 MHz	24 @ 250 MHz	> -15 @ 1 GHz	> -18 @ 2 GHz	> -24 @ 4 GHz	SMT580
MLPNC-7100-SMA850	20 @ 100 MHz	24 @ 400 MHz	> -8 @ 4 GHz	> -18 @ 12 GHz	> -35 @ 20 GHz	SMA850
MLPNC-7100-SMT680	20 @ 100 MHz	24 @ 400 MHz	> -8 @ 4 GHz	> -16 @ 12 GHz	> -35 @ 20 GHz	SMT680
MLPNC-7102S1-SMA800	18 @ 300 MHz	24 @ 700 MHz	> -10 @ 4 GHz	> -15 @ 8 GHz	> -22 @ 12 GHz	SMA800
MLPNC-7102S1-SMT580	18 @ 300 MHz	24 @ 700 MHz	> -10 @ 4 GHz	> -15 @ 8 GHz	> -22 @ 12 GHz	SMT580
MLPNC-7103S1-SMA800	18 @ 600 MHz	24 @ 1500 MHz	> -10 @ 4 GHz	> -8 @ 8 GHz	> -20 @ 15 GHz	SMA800
MLPNC-7103S1-SMT580	18 @ 600 MHz	24 @ 1500 MHz	> -10 @ 4 GHz	> -8 @ 8 GHz	> -20 @ 15 GHz	SMT580