

OSCILLATORS

MICROWAVE OSCILLATORS

VOLTAGE CONTROLLED OSCILLATORS (VCO)



FEATURES

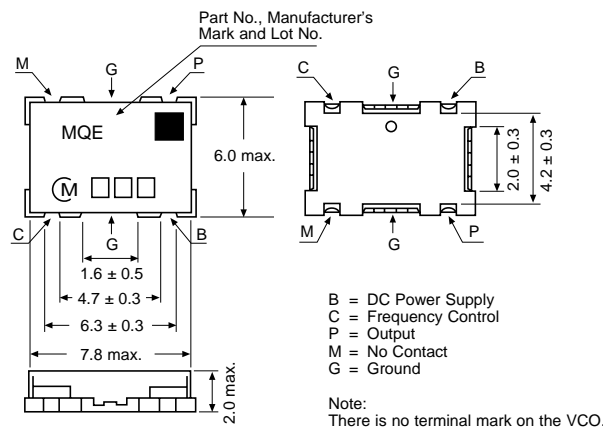
- Small and lightweight
- Low power consumption
- Excellent temperature stability

APPLICATIONS

- Mobile and hand held telephone
- Cordless telephone
- Personal radio
- MCA radio

DIMENSIONS: mm

MQE 900 Series



ANALOG AND CELLULAR PHONE SYSTEMS

Application	Part Number	Frequency (MHz)	VB (V)	VC (V)	Control Voltage Sensitivity (MHz/V)	Output Level (dBm)	Power Consumption (mA Max)	C/N (1) DBc/Hz	
AMPS/ CDMA/ TDMA	Tx	MQE901-926	914.0~939.0	4.5	1.0~3.3	18 ± 3	0 ± 3	8.0	≧114 (60)
		MQE915-926	914.0~939.0	3.0	0.5~2.5	≧16	≧-6.0	8.0	≧98 (10)
		MQE912-953	939.0~968.0	3.6	0.5~3.0	≧15	≧-6.0	6.5	≧104 (25)
		MQE915-967A	952.0~980.0	3.0	0.7~2.5	≧23	-1 ± 3	10.0	≧115 (60)
		MQE917-967A	952.0~980.0	2.6	0.7~2.5	≧23	-1 ± 3	8.0	≧119 (60)
	MQE912-991A	978.0~1004.0	2.5	0.6~2.2	27 ± 4	-1.5 ± 3	7.0	≧108.5 (20)	
	Rx	MQE912-836	824.0~849.0	3.8	0.7~3.1	20 ± 4	3.5 ± 3.5	8.0	≧100 (60)
MQE918-836		824.5~849.5	2.7	0.5~2.5	21 ± 4	≧-4	8.0	≧111 (60)	
PCS	Rx/Tx	MQE911-1035	1007.0~1064.0	3.3	0.6~2.6	44 ± 8	≧-5	6.0	≧115 (60)
		MQE922-1635	1620.0~1650.0	3.0	0.5~2.5	26 ± 4	0 ± 3	9.0	≧112 (100)
		MQE920-1750	1720.0~1780.0	3.3	0.3~3.0	40 ± 10	0 ± 2.5	8.5	≧110 (100)
		MQE925-1750	1720.0~1780.0	3.0	0.3~2.5	40 ± 7	-1.5 ± 2.5	9.0	≧90 (10)
GSM	Rx	MQE911-766A	742.0~790.0	3.75	0.6~3.0	30 ± 5	-1.5 ± 2.5	10.0	≧80 (10)
		MQE904-1171	1136.0~1206.0	2.6	0.3~2.4	50 ± ¹² / _{f₀}	0 ± 3	8.0	≧85 (10)
	Tx	MQE9P7-897	880.0~915.0	3.0	0.5~2.5	30 ± 6	12 ± 2	60.0	≧120 (150)
		MQE9PD-897	880.0~915.0	2.7	0.5~1.9	40 ± 8	7 ± 2.5	40.0	≧75 (20)
Rx/Tx	MQE901-925	890.0~960.0	5.0	1.0~4.0	30 ± 3	0 ± 1.5	9.0	≧95 (10)	
DCS	Rx	MQE920-1655	1614.0~1697.0	3.6	0.5~3.1	42 ± 5	-1.5 ± 2.5	10.0	≧140 (3000)
		MQE920-1668	1627.0~1710.0	3.8	0.5~3.1	44 ± 6	0 ± 3	10.0	≧80 (10)
	Tx	MQE9PE-1747	1704.0~1791.0	2.75	0.8~2.25	70 ± 10	7.5 ± 2.5	50.0	≧111 (150)
		MQE9PF-1747	1710.0~1785.0	2.7	0.6~2.1	70 ± 11	7 ± 2.5	40.0	≧75 (20)
PDC800	Rx/Tx	MQE912-717	680.0~755.0	2.2	0.4~2.4	52 ± 10	≧-7	6.0	≧110 (50)
		MQE911-819	810.1~828.1	2.2	0.5~2.5	17 ± 3	-5 ± 3	6.0	≧108.5 (25)
		MQE911-1071	1054.55~1087.55	2.2	0.5~2.3	30 ± 5	-4 ± 3	7.5	≧113 (50)
PDC1.5	Rx/Tx	MQE920-1619	1607.0~1631.0	2.1	0.5~2.5	26 ± 5	-4 ± 3	7.0	≧101 (25)
	2 Lo	MQE964-129	129.55	2.9	0.7~2.2	4.5 ± 1	-3 ± 3	5.0	≧112 (25)
Tx	MQE961-178	178.0	2.2	0.7~2.2	5.5 ± 1.5	-3 ± 3	5.0	≧111 (25)	

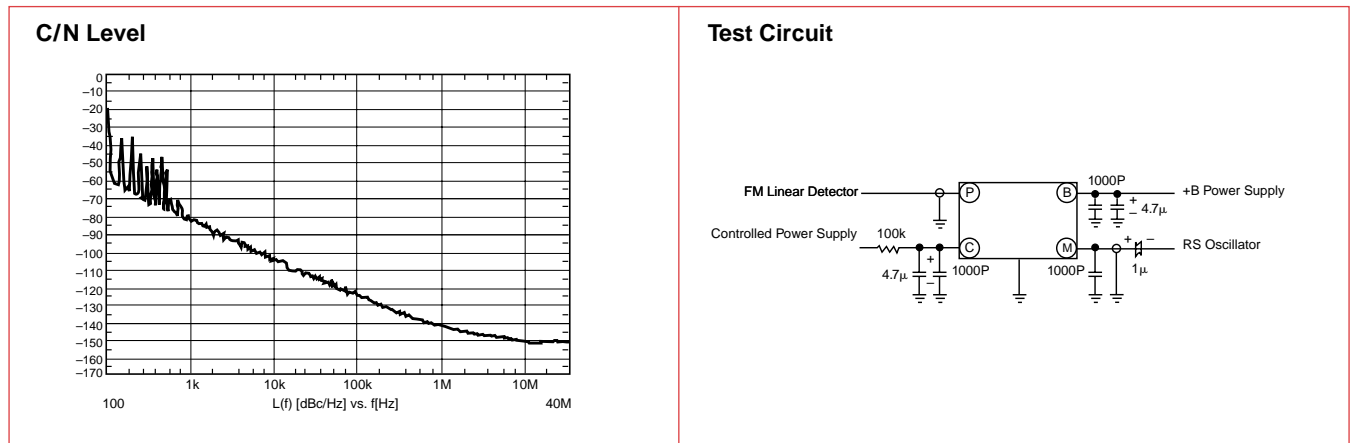
(1) : Separation (kHz)

OTHER SYSTEMS

Application	Part Number	Frequency (MHz)	VB (V)	VC (V)	Control Voltage Sensitivity (MHz/V)	Output Level (dBm)	Power Consumption (mA Max)	C/N (1) (dBc/Hz)	
LMR	Tx	MQE911-815	805.5-825.5	3.0	0.5-3.0	18 ± 4	≥ -3	8.0	≥ 101 (12.5)
MOBITEX	Tx	MQE911-896	889.5-902.5	3.0	0.5-3.0	≥ 5.0	≥ -3	8.0	≥ 98 (12.5)
ISM915	1Lo	MQE911-877	862.1-892.1	3.0	0.5-2.5	≥ 19	≥ -6	7.0	≥ 107 (30)
		MQE911-915	902.0-928.0	3.0	0.5-2.5	≥ 19	≥ -6	7.0	≥ 107 (30)
DECT	Tx	MQE921-1840	1760.0-1920.0	2.8	0.3-2.4	95 ± 12	0 ± 3	10.0	≥ 91 (10)
WLAN	1Lo	MQE920-2079	2029.0-2129.0	3.0	0.5-2.5	65 ± 10	0 ± 4	13.0	≥ 85 (20)
		MQE920-2162	2112.0-2212.0	3.0	0.5-2.5	62 ± 8	-1 ± 3	12.0	≥ 105 (100)
		MQE920-2165	2040.0-2290.0	5.0	0.6-4.4	82 ± 10	0 ± 4	10.0	≥ 108 (100)
		MQE920-2450	2400.0-2500.0	4.5	1.5-3.5	≥ 55.0	0 ± 4	12.0	≥ 83 (10)
		MQE922-2450	2400.0-2500.0	3.0	0.4-2.4	65 ± 10	-1 ± 4	12.0	≥ 75 (10)

(1) : Separation (kHz)

VCO TYPICAL CHARACTERISTICS



MOUNTING AND PACKAGING – MQE9

