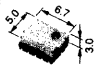
RF DIODE SWITCHES

■For Mobile Communication Equipment

• RF Diode Switches

NEW



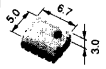
LMS36C

System	Parts Number		Frequency Range (fo) (MHz)	Insertion Loss (dB)	Isolation (Tx→Rx) (dB)	Power Capacity (dBm)
GSM	LMS36C0902M045	Tx	902.5±12.5	1.0 max.	20 max.	35
		Rx	947.5±12.5			
PDC1.5GHz	LMS36C1441M048	Tx	1441.0±12.0	1.0 max.	20 max.	35
		Rx	1489.0±12.0			
PHS	LMS36C1907M000	Tx	1907.5±12.5	1.0 max.	20 max.	27
		Rx				
W-LAN	LMS36C2450M000	Tx	2450.0±50.0	1.0 max.	20 max.	27
		Rx				

• Other systems aiso available.

• RF Diode Switchs with Integrated Low-Pass Filter

NEW



LMS36L

System	Parts Number		Frequency Range (fo) (MHz)	Insartion Loss (dB)		Isolation (Tx→Rx) (dB)	Attenuation Tx→ANT (dB)	Power Capacity (dBm)
GSM	LMS36L0902M045	Tx	902.5±12.5	Tx→ANT	1.7max.	20 min.	25.0min. at 2Xfo	35
		Rx	947.5±12.5	ANT→Rx	1.5max.		25.0min. at 3Xfo	
PDC1.5GHz	LMS36L1441M048	Tx	1441.0±12.0	Tx→ANT	1.7max.	20 min.	25.0min. at 2Xfo	35
		Rx	1489.0±12.0	ANT→Rx	1.5max.		25.0min. at 3Xfo	
PHS	LMS36L1907M000	Tx	1907.5±12.5	Tx→ANT	1.7max.	20 min.	25.0min. at 2Xfo	27
		Rx		ANT→Rx	1.0max.		25.0min. at 3Xfo	

• Other systems aiso available.

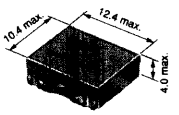
■Minimum Quantity (order in sets only)

Taping: 500pcs./reel

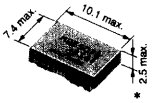
(in mm)

MICROWAVE OSCILLATORS (VCO)

■VCO for Mobile Telephones and Portable Telephones



MQE000 Type



MQE500 Type

*MQE570 Type: 3.0max.

(in mm)

• VCO for Analog Cellular Phone Systems

Application		Part Number	Operating Freq. Range (MHz)	Supply Voltage (V)	Control Voltage Range (V)	Control Voltage Sensitivity (MHz/V)	Output Level (dBm)	Power Consumption (mA max.)	Audio Modulation Sensitivity (1) (mVrms)	S/N (2) (dBc min.)	C/N (3) (dBc/Hz min.)
E-AMPS	Tx	MQE001-836	836.5±12.5	4.2±0.25	1.0—4.0	≧ 9.0	≧−4.0	6.5	124—248 (± 8)	52 (±8)	110 (25)
		MQE501-836	836.5±12.5	4.3±0.25	1.0—4.0	≧11.0	≧−1.0	7.0	290—400 (± 10)	50.5 (±8)	114 (60)
	Rx	MQE001-926	926.5±12.5	4.2±0.25	1.0—4.0	≧10.0	≧−5.0	6.5	—	52 (±8)	110 (25)
		MQE501-926	926.5±12.5	4.5±0.25	0.7—4.3	≧ 8.5	≧−5.0	7.0	—	52 (±8)	109 (30)
		MQE001-964	964.5±12.5	4.2±0.25	1.0—4.0	≧ 9.0	≧−5.0	8.0	—	52 (±8)	110 (25)
		MQE043-964A	964.5±12.5	3.2±0.25	1.0—3.0	≧13.0	≧−6.0	8.0	—	52 (±8)	100 (60)
E-TACS	Tx	MQE001-888	888.5±16.5	4.2±0.25	1.0—4.0	≧12.0	≧−4.5	6.5	124—248 (±6.4)	52 (±8)	109 (25)
		MQE042-888	888.5±16.5	3.3±0.20	0.5—2.7	≧19.5	≧−6.0	8.0	124—248 (±6.4)	45 (±3)	107 (25)
	Rx	MQE001-978	978.5±16.5	4.2±0.25	0.7—4.3	≧11.0	≧−6.0	10.0	—	52 (±8)	109 (25)
		MQE001-1016	1016.5±16.5	4.2±0.20	0.5—4.5	≧10.0	≧−6.0	10.0	—	52 (±6.4)	111 (25)
		MQE042-1016	1016.5±16.5	3.3±0.20	0.5—2.7	≧16.0	≧−6.0	7.0	—	45 (±3)	107 (25)
		MQE002-1025	1025.5±16.5	4.2±0.25	0.7—4.3	≧10.5	≧−6.5	10.0	—	52 (±6.4)	111 (25)
NMT900	Tx	MQE001-902	902.5±12.5	4.2±0.25	1.0—4.0	≧10.0	≧−3.0	10.0	200—316 (± 3)	45 (±3)	103 (12.5)
	Rx	MQE001-1018	1018.5±12.5	4.2±0.20	1.0—4.0	≧10.0	≧−6.0	10.0	—	45 (±3)	111 (25)
NTT	Rx	MQE001-787	787.5±12.5	5.0±0.25	1.0—4.0	≧ 9.0	≧−1.0	8.5	—	45 (±3)	109 (12.5)
		MQE572-787	787.5± 7.5	3.0±0.30	0.5—2.5	≧ 9.5	≧−6.0	7.0	—	45 (±3)	107 (12.5)
N-TACS	Rx	MQE002-766	766.5±13.0	4.2±0.25	1.0—4.0	≧ 9.0	≧−5.0	7.0	—	45 (±3)	107 (25)
		MQE570-766	766.5±13.5	3.0±0.15	0.5—2.5	≧19.0	≧−5.0	7.0	—	45 (±3)	110 (25)
		MQE045-801	801.5±13.5	3.2±0.20	0.8—3.3	≧14.0	≧−4.0	7.5	—	45 (±3)	102 (25)

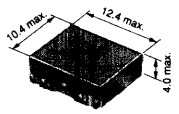
• VCO for Digital Cellular Phone Systems

Application		Part Number	Oprating Freq. Range (MHz)	Supply Voltage (V)	Control Voltage Range (V)	Control Voltage Sensitivity (MHz/V)	Output Level (dBm)	Power Consumption (mA max.)	Audio Modulation Sensitivity (1) (mVrms)	S/N (2) (dBc min.)	C/N (3) (dBc/Hz min.)
ADC	Tx	MQE001-836	836.5±12.5	4.2±0.25	1.0—4.0	≧ 9.0	≧ −4.0	6.5	124—248 (± 8)	52 (±8)	110 (25)
		MQE501-836	836.5±12.5	4.3±0.25	1.0—4.0	≧11.0	≧ −1.0	7.0	124—248 (±10)	52 (±8)	114 (60)
	Rx	MQE001-926	926.5±12.5	4.2±0.25	1.0—4.0	≧10.0	≧ −5.0	6.5	—	52 (±8)	110 (25)
		MQE501-926	926.5±12.5	4.5±0.25	0.7—4.3	≧ 8.5	≧ −5.0	7.0	—	52 (±8)	109 (30)
		MQE001-964	964.5±12.5	4.2±0.25	1.0—4.0	≧ 9.0	≧ −5.0	8.0	—	52 (±8)	110 (25)
		MQE043-964A	964.5±12.5	3.2±0.25	1.0—3.0	≧13.0	≧ −6.0	8.0	—	52 (±8)	100 (60)
GSM	Tx	MQE001-902	902.5±12.5	4.2±0.25	1.0—4.0	≧10.0	≧ −3.0	10.0	200—316 (± 3)	45 (±3)	103 (12.5)
		MQE502-902	902.5±12.5	4.7±0.25	0.8—4.2	≧10.0	≧ −1.0	10.0	200—316 (± 3)	45 (±3)	103 (12.5)
	Rx	MQE001-1018	1018.5±12.5	4.2±0.20	1.0—4.0	≧10.0	≧ −6.0	10.0	—	45 (±3)	111 (25)
PDC800	Rx	MQE003-730	730.0±10.0	4.3±0.25	1.0—4.0	≧ 7.0	≧−10.0	6.0	—	45 (±3)	114 (50)
		MQE001-820	820.0±10.0	4.2±0.25	1.5—3.5	≧12.0	≧ −6.0	7.0	—	45 (±3)	115 (50)
		MQE570-820	820.0±10.0	2.3±0.23	0.5—2.5	≧13.0	≧ −8.0	6.0	—	48 (±3)	121 (100)
PDC1500	Rx	MQE523-1619	1619.0±12.0	3.0±0.25	0.5—2.5	≧39.0	≧ −6.0	11.0	—	—	107 (50)
		MQE535-1619	1619.0±12.0	2.2±0.20	1.0—2.0	≧33.5	≧ −4.0	10.0	—	33 (±3)	113 (100)

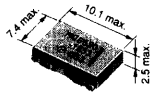
(1) ( )=Deviation (kHz) (2) ( )=Sound level (kHz) (3) ( )=Separation (kHz)

MICROWAVE OSCILLATORS (VCOs)

■VCO for Digital Cordless Phone Systems



MQE000 Type



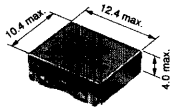
MQE500 Type

(in mm)

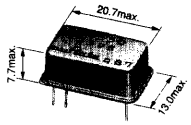
Application		Part Number	Operating Freq. Range (MHz)	Supply Voltage (V)	Control Volt. Range (V)	Control Volt. Sensitivity (MHz/V)	Output Level (dBm)	Power Consumption (mA max.)	Audio Modulation Sensitivity (1) (mVrms)	S/N (2) (dBc min.)	C/N (3) (dBc/Hz min.)
DECT	Tx	*MQE030-1890	1890.0±15.0	3.0±0.25	0.5—2.5	≧15.0	≧−5.0	10.0	—	—	95 (50)
	Rx	MQE030-1780	1780.0±15.0	3.0±0.25	0.5—2.5	≧15.0	≧−5.0	10.0	—	—	100 (50)
		MQE030-1835	1835.0±65.0	3.0±0.25	0.5—2.5	≧65.0	≧−5.0	15.0	—	—	90 (50)
PHS	Rx	MQE520-1653	1652.5±17.5	2.3±2.30	0.3—2.0	≧21.0	≧−6.0	8.0	—	—	97 (25)
		*MQE520-1658	1658.0±12.0	3.0±0.25	0.5—2.0	≧25.0	≧−5.0	8.0	—	—	116 (150)

(1) ( )=Deviation (kHz) (2) ( )=Sound level (kHz) (3) ( )=Separation (kHz)
* under development

■VCO for The Other Systems



MQE000/700 Type



MQC500 Type

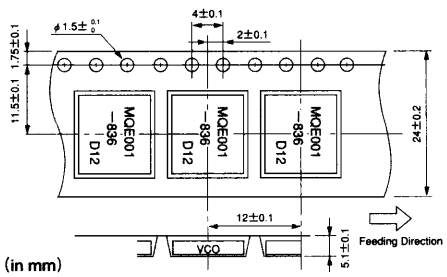
(in mm)

Application		Part Number	Operating Freq. Range (MHz)	Supply Voltage (V)	Control Volt. Range (V)	Control Volt. Sensitivity (MHz/V)	Output Level (dBm)	Power Consumption (mA max.)	Audio Modulation Sensitivity (1) (mVrms)	S/N (2) (dBc min.)	C/N (3) (dBc/Hz min.)
GPS	Rx	MQC530-1395	1395.0± 4.5	5.0±0.25	1.0—4.0	≧ 3.0	≧−2.0	20.0	—	—	85 (10)
		MQE030-1399	1399.0± 2.0	3.0±0.25	0.5—2.5	≧ 3.0	≧−5.0	10.0	—	—	90 (10)
		MQC530-1485	1485.4± 3.0	4.5±0.20	1.0—4.0	≧ 2.0	≧−3.0	15.0	—	—	75 (1)
MCA/ DMCA	Tx	MQC531-1465	1465.0±12.0	7.3±0.25	2.0—6.5	≧ 5.5	≧ 2.0	25.0	200— 500 (±6)	50 (±3)	114 (25)
	Rx	MQC530-1586	1586.5±12.5	7.5±0.50	1.5—6.0	≧ 5.56	≧ 0.0	25.0	—	40 (±3)	113 (25)
LMR	Tx	MQE001- 815	815.5± 9.5	5.0±0.25	1.5—3.5	≧10.0	≧−3.0	7.0	124— 248 (±8)	52 (±8)	110 (25)
Radio Trans-ceiver	Tx	MQE746- 426	426.5± 0.5	2.0±0.20	0.5—1.5	≧ 9.0	≧−6.0	7.0	60— 140 (±1.5)	40 (±1.5)	101(12.5)
		MQE744- 429	429.0± 1.0	3.0±0.20	0.5—2.5	≧ 2.0	≧−3.0	10.0	253— 455 (±3.5)	45 (±3)	107(12.5)
		MQE744- 430	431.0± 9.5	3.0±0.30	0.5—2.7	≧10.0	≧−6.0	7.0	60— 140 (±1.5)	40 (±1.5)	103(12.5)
		MQE501- 808	808.0± 2.0	5.0±0.30	1.0—3.0	≧ 6.0	≧ 1.0	10.0	800—1200 (±8)	52 (±8)	109 (25)
	Rx	MQE744- 385	386.0± 9.5	3.0±0.30	0.5—2.7	≧10.0	≧−6.0	7.0	—	40 (±1.5)	103 (12.5)
		MQE744- 450	449.7± 1.0	3.0±0.20	0.5—2.5	≧ 2.0	≧−3.0	10.0	—	45 (±3)	107 (12.5)
		MQE001- 754	754.0± 2.0	5.0±0.30	1.0—3.0	≧ 4.0	≧−6.0	7.0	—	45 (±3)	110 (25)

(1) ( )=Deviation (kHz) (2) ( )=Sound level (kHz) (3) ( )=Separation (kHz)

■Taping Specifications

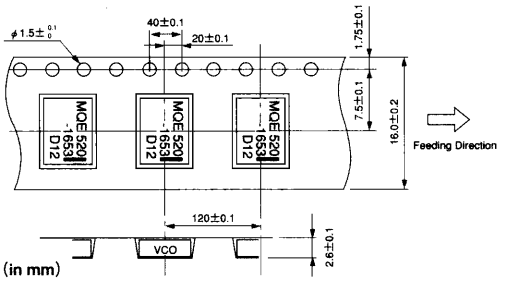
• MQE000/700 Type



(in mm)

■Minimum Quantity (order in sets only) : 1,000 pcs./reel (φ330mm)

• MQE500 Type



(in mm)

■Minimum Quantity (order in sets only) : 500 pcs./reel (φ178mm)