

OSCILLATORS

MICROWAVE OSCILLATORS

PHASE LOCK LOOP MODULE

HFQ3/HFQ41/HFQ55 Series



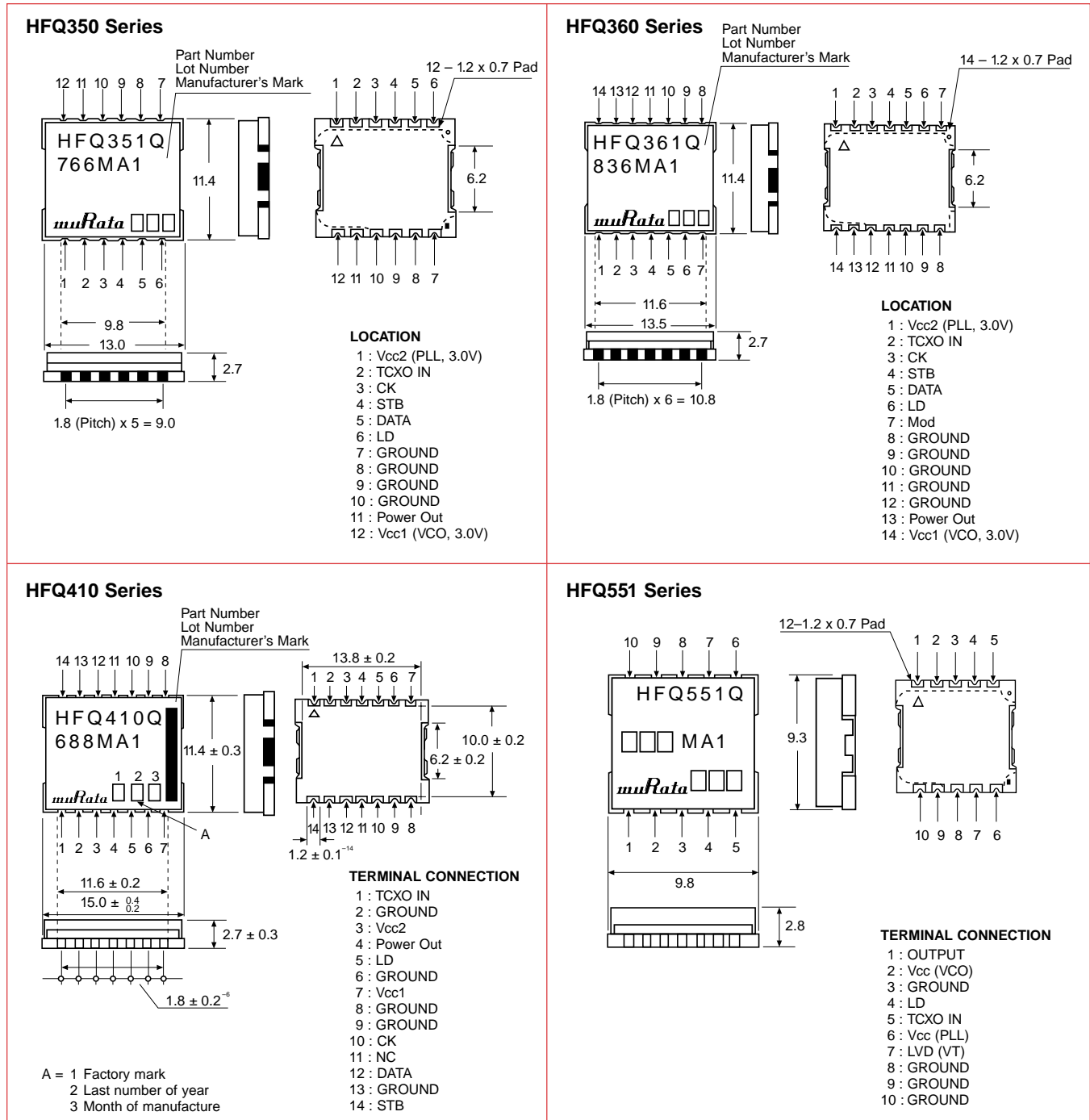
FEATURES

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

APPLICATIONS

- Mobile and hand held telephone

DIMENSIONS: mm



OSCILLATORS

MICROWAVE OSCILLATORS

PHASE LOCK LOOP MODULE – SPECIFICATIONS

PLL MODULES

Application	Part Number	Operating Frequency Range (MHz)	Supply Voltage (V)	Output Level (dBm)	Power Consumption (mA max.)	Audio Modulation Sensitivity (mVrms)(1)	S/N (2) (dB min.)	C/N (3) (dBc/Hz min.)	Lock-up Time (msec.max.)
E-AMPS	Tx HFQ361Q836MA1	836.5 ± 12.5	3.0 ± 0.15	≥ -4.0	18.0	113 – 169 (8)	45 (8)	112 (60)	40
	Rx HFQ351Q964MA1	964.5 ± 12.5	3.0 ± 0.15	≥ -4.0	18.0	—	45 (8)	112 (60)	40
E-TACS	Tx HFQ362Q888MA1	888.5 ± 16.5	5.0 ± 0.25	-2 ± 2	18.0	113 – 169 (8)	45 (5.7)	111 (50)	40
	Rx HFQ352Q1025MA1	1025.5 ± 16.5	5.0 ± 0.25	≥ -5.0	21.0	—	45 (8)	111 (50)	40
N-TACS	Rx HFQ351Q766MA1	766.5 ± 13.5	3.0 ± 0.30	≥ -4.0	18.0	—	43 (3)	107 (12.5)	50
	HFQ351Q801MA1	801.5 ± 13.5	3.0 ± 0.30	≥ -5.0	18.0	—	43 (3)	103 (12.5)	50
PDC800	1L HFQ410Q688MA1	687.95 ± 8.0	3.0 ± 0.30	-4 ± 3	16.0	—	—	105 (50)	2.0
PDC1500	2L HFQ551Q129MA1	129.55	2.8 ± 0.20	≥ -7.0	8.0	—	—	80 (3)	3.5
	Tx HFQ551Q178MA1	178.00	2.8 ± 0.20	≥ -7.0	8.0	—	—	85 (6)	2.1

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

■ BLOCK DIAGRAM

