



D	Q <sub>n</sub>	Q <sub>n+1</sub>
0	0	0
0	1	0
1	0	1
1	1	1

V<sub>CC</sub> = Pin 14

V<sub>EE</sub> = Pin 7

Max Frequency = 250 MHz typ

P<sub>D</sub> = 425 mW

## Digital Mixer/Translator

The MC12000 is intended for use as a digital mixer in phase-locked loop frequency synthesizers and other applications where a MECL "D" flip-flop with translators is required. Toggle frequency is typically 250 MHz. MTTT to MECL and MECL to MTTT translators are provided to facilitate interfacing with MECL or MTTT circuits.

The MC12000 is designed to operate from a single power supply of either +5.0 V dc or -5.2 V dc.

MC12000

PHASE-LOCKED LOOP