Two-Modulus Prescaler

The MC12012 is a two-modulus prescaler which consists of three functional blocks: 1) a controllable divide by 5/divide by 6 prescaler; 2) a divide by 2 prescaler; and 3) a MECL to MTTL translator. When used with the MC12014 Counter Control Loaic function and the MC4016 programmable counter, a divide by N programmable counter can be constructed for operation to 200 MHz. This arrangement is especially useful in frequency synthesizer applications.

- ±2, ±5/±6, ±10/±11, ±10/±12
- MECL to MTTL Translator on Chip
- +5.0 or -5.2 V Operation*
- 200 MHz (typ) Toggle Frequency

*When using +5.0 V supply, apply +5.0 V to pin 16 (V_{CC}) and ground pin 8 (V_{EE}). When using -5.2 V supply, ground pin 16 (V_{CC}) and apply -5.2 V to pin 8 (V_{EE}).



MC12012

PHASE-LOCKED LOOP