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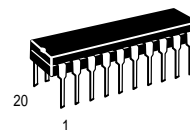
## MC145146-2

### 4-Bit Data Bus Input PLL Frequency Synthesizer Interfaces with Dual-Modulus Prescalers

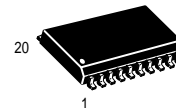
The MC145146-2 is programmed by a 4-bit input, with strobe and address lines. The device features consist of a reference oscillator, 12-bit programmable reference divider, digital phase detector, 10-bit programmable divide-by-N counter, 7-bit divide-by-A counter, and the necessary latch circuitry for accepting the 4-bit input data.

- Operating Temperature Range: -40 to 85°C
- Low Power Consumption Through the Use of CMOS Technology
- 3.0 to 9.0 V Supply Range
- Programmable Reference Divider for Values Between 3 and 4095
- Dual-Modulus 4-Bit Data Bus Programming
- $\div N$  Range = 3 to 1023,  $\div A$  Range = 0 to 127
- "Linearized" Digital Phase Detector Enhances Transfer Function Linearity
- Two Error Signal Options:  
Single-Ended (Three-State)  
Double-Ended

**NOT RECOMMENDED FOR NEW DESIGNS;  
PRODUCT TO BE PHASED OUT.**  
Closest equivalents are the MC145152-2, MC145170-1,  
MC14519X series, and MC14520X series.



**P SUFFIX**  
PLASTIC DIP  
CASE 738



**DW SUFFIX**  
SOG PACKAGE  
CASE 751D

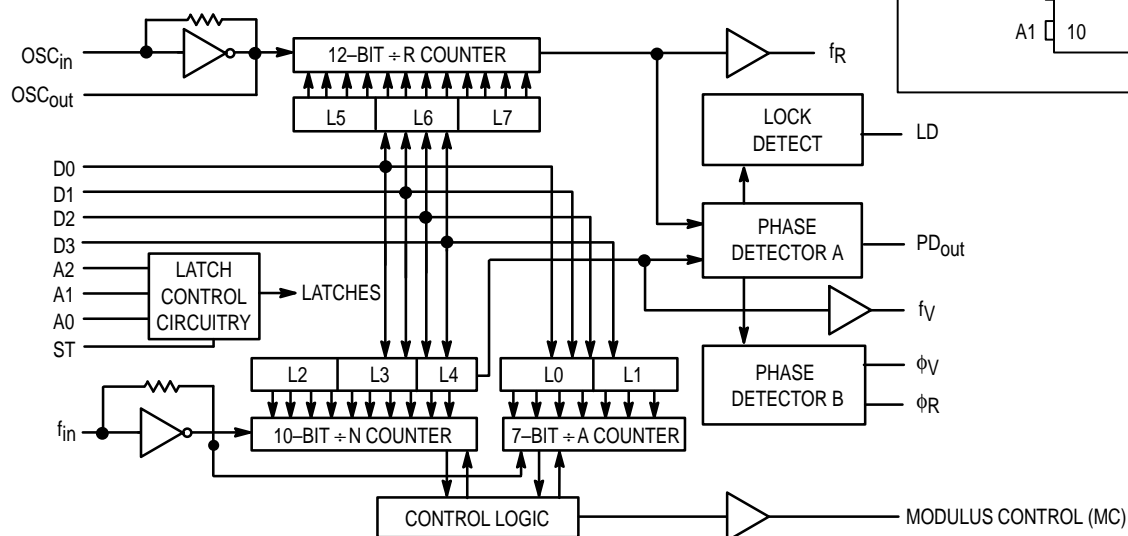
#### ORDERING INFORMATION


MC145146P2 Plastic DIP  
MC145146DW2 SOG Package

#### PIN ASSIGNMENT

D1	1	20	D2
D0	2	19	D3
f <sub>in</sub>	3	18	f <sub>R</sub>
V <sub>SS</sub>	4	17	φ <sub>R</sub>
PD <sub>out</sub>	5	16	φ <sub>V</sub>
V <sub>DD</sub>	6	15	f <sub>V</sub>
OSC <sub>in</sub>	7	14	MC
OSC <sub>out</sub>	8	13	LD
A0	9	12	ST
A1	10	11	A2

#### BLOCK DIAGRAM



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