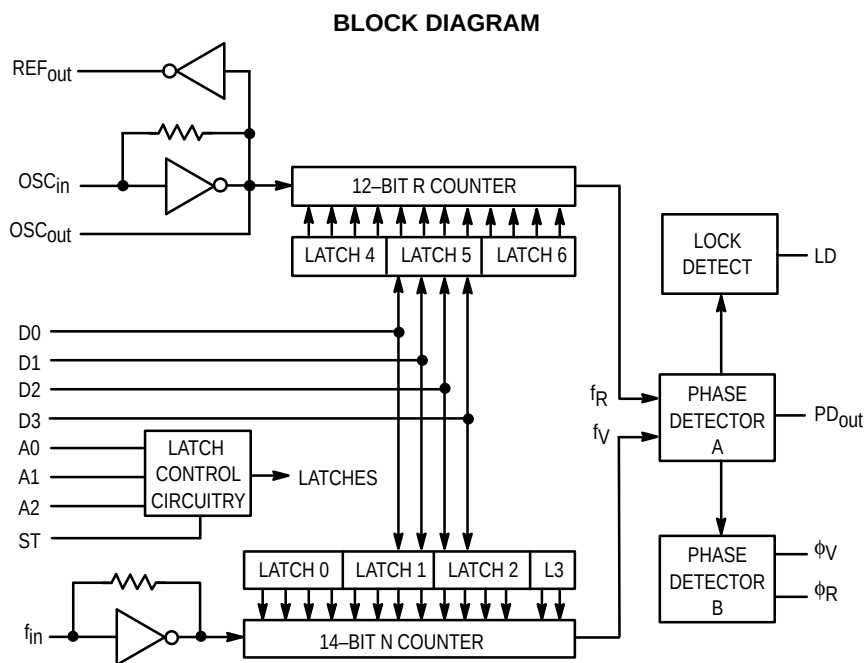


4-Bit Data Bus Input PLL Frequency Synthesizer Interfaces with Single-Modulus Prescalers

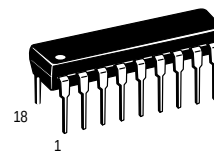
The MC145145-2 is programmed by a 4-bit input, with strobe and address lines. The device features consist of a reference oscillator, 12-bit programmable reference divider, digital phase detector, 14-bit programmable divide-by-N counter, and the necessary latch circuitry for accepting the 4-bit input 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
- Single Modulus 4-Bit Data Bus Programming
- $\div N$ Range = 3 to 16,383, $\div R$ Range = 3 to 4,095
- "Linearized" Digital Phase Detector Enhances Transfer Function Linearity
- Two Error Signal Options:
Single-Ended (Three-State)
Double-Ended

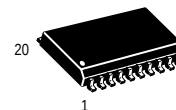
**NOT RECOMMENDED FOR NEW DESIGNS;
PRODUCT TO BE PHASED OUT.**
Closest equivalents are the MC145151-2, MC145170-1,
MC14519X series, and MC14520X series.



MC145145-2



P SUFFIX
PLASTIC DIP
CASE 707



DW SUFFIX
SOG PACKAGE
CASE 751D

ORDERING INFORMATION

MC145145P2 Plastic DIP
MC145145DW2 SOG Package

PIN ASSIGNMENTS

PLASTIC DIP

D1	1	18	D2
D0	2	17	D3
f _{in}	3	16	REF _{out}
V _{SS}	4	15	φ _R
V _{DD}	5	14	φ _V
OSC _{in}	6	13	LD
OSC _{out}	7	12	PD _{out}
A0	8	11	ST
A1	9	10	A2

SOG PACKAGE

D1	1	20	D2
D0	2	19	D3
NC	3	18	REF _{out}
f _{in}	4	17	φ _R
V _{SS}	5	16	φ _V
V _{DD}	6	15	LD
OSC _{in}	7	14	PD _{out}
OSC _{out}	8	13	ST
A0	9	12	A2
A1	10	11	NC

NC = NO CONNECTION



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