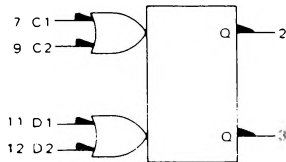




## UHF Prescaler Type D Flip-Flop



TRUTH TABLE

C	D	Q <sub>n-1</sub>
L	0	Q <sub>n</sub>
H	0	Q <sub>n</sub>
	L	L
	H	H

C = C1 · C2      0 = Don't Care  
D = D1 · D2

V<sub>CC1</sub> = Pin 1  
V<sub>CC2</sub> = Pin 16  
V<sub>EE</sub> = Pin 8

P<sub>D</sub> = 200 mW typ/pkg (No Load)  
f<sub>tog</sub> = 500 MHz min

The MC1690 is a high speed D master-slave flip-flop capable of toggle rates over 500 MHz. Designed primarily for high speed prescaling applications in communications and instrumentation, this device employs two data inputs, two clock inputs and complementary Q and  $\bar{Q}$  outputs. It is a higher frequency replacement for the MC1670 (350 MHz) D flip-flop. There are no set or reset inputs and an extra data input is provided.

When used with the MC1678, the MC1690 provides a decade counter capable of 500 MHz operation.

MC1690

FLIP-FLOPS