

# Frequency Multiplying Unit

**SERIES: FMU-3**

**14 pins DIP  
TTL Interfaced**

**data  
delay  
devices, inc.**



## Features:

- Auto-Insertable.
- Completely interfaced with TTL and DTL application.
- No external components required.
- P.C. board space economy achieved.
- Fits standard 14 pins DIP socket.

## Specifications:

- Frequency multiplier: 3.
- Frequency tolerance:  $\pm 5\%$  or 2 ns  
whichever is greater.
- Pulse skewing: 5 ns typical.
- Duty cycle out = 50%  $\pm 2$  ns or  $\pm 5\%$   
whichever is greater.
- Rise-time: 2 ns typically.
- Temperature coefficient: 100 PPM/ $^{\circ}$ C.
- Temperature range: 0 $^{\circ}$ C to 70 $^{\circ}$ C standard  
(-55 $^{\circ}$ C to +125 $^{\circ}$ C) on request.\*\*
- Logic 1 Input current: 20 ua max.
- Logic 0 Input current: -6 ma max.
- Logic 1 V out: 2.5 min.
- Logic 0 V out: 0.5 V max.
- Logic 1 fan-out: 25 max.
- Logic 0 fan-out: 12.5 max.
- Supply voltage: 4.75 to 5.25 Vdc.
- Supply current:  $I_{ccl}$ : 50 ma.  
 $I_{cch}$ : 15 ma.

\*\*Add an "M" after the part number  
Ex. P/N FMU-3-3R000M Case: E5

Part Number	Input Frequency In (MHZ)	Output Frequency In (MHZ)
FMU-3-1R500	.500	1.500
FMU-3-3R000	1.000	3.000
FMU-3-6R000	2.000	6.000
FMU-3-9R000	3.000	9.000
FMU-3-12R000	4.000	12.000
FMU-3-18R000	6.000	18.000
FMU-3-24R000	8.000	24.000
FMU-3-48R000	16.000	48.000
FMU-3-60R000	20.000	60.000
FMU-3-75R000	25.000	75.000
FMU-3-90R000	30.000	90.000

Other frequencies available on request.

