

Frequency Doubling Unit

SERIES: FDU-2

**14 pins DIP
TTL Interfaced**

**data
delay
devices, inc.**

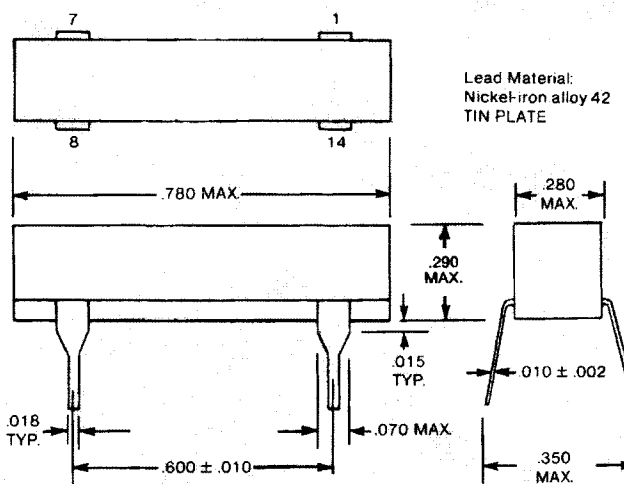
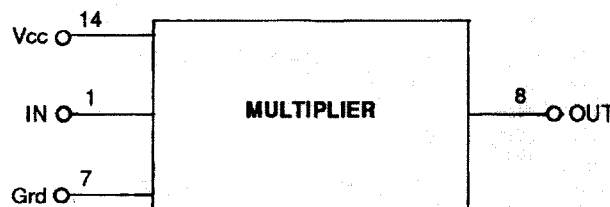
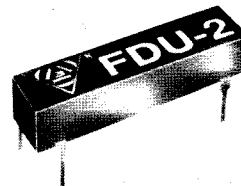
Features:

- 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 tolerance: $\pm 5\%$ or 2 ns
whichever is greater.
- Pulse skewing: 5 ns typical.
- Duty cycle out = 50% ± 2 ns or $\pm 5\%$
whichever is greater.
- Rise-time: 2 ns typically.
- Temperature coefficient: 100 PPM/ $^{\circ}\text{C}$.
- Temperature range: 0°C to 70°C standard
(-55°C to $+125^{\circ}\text{C}$) on request.**
- Logic 1 Input current: 20 μa 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 FDU-2-2R000M Case: E5



Part Number	Input Frequency In (MHZ)	Output Frequency In (MHZ)
FDU-2-1R000	.500	1.000
FDU-2-2R000	1.000	2.000
FDU-2-4R000	2.000	4.000
FDU-2-4R096	2.048	4.096
FDU-2-6R000	3.000	6.000
FDU-2-8R000	4.000	8.000
FDU-2-12R000	6.000	12.000
FDU-2-16R000	8.000	16.000
FDU-2-32R000	16.000	32.000

Other frequencies available on request.