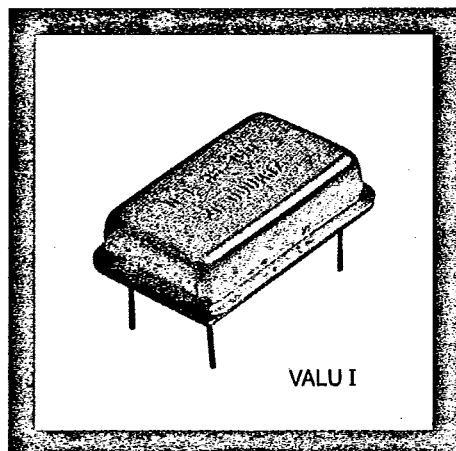




VALU I

VALU I™ CRYSTAL CLOCK OSCILLATOR

For those applications which will allow a relaxed tolerance ($\pm .05\%$ overall, 0-70°C), Midland-Ross, NEL offers the VALU I series of clock oscillators. These units are TTL compatible, (1 to 10 TTL Gates) and fit a DIP layout. Standard electrical specifications are as shown below.

With a .208" (5.28 mm) maximum seated height, the VALU I requires only .515" maximum (13.08 mm) by .815" maximum (20.7 mm) PC board space.

The all metal package offers RFI shielding, and is supplied with .020" maximum (.508 mm) standoffs to provide spacing for traces beneath the oscillator.

NEL's high volume production capabilities insure a very price competitive unit. Proven reliability and highest quality in workmanship are guaranteed by many years experience in supplying the frequency control needs of the industry.

Frequencies Available:	16.000 MHz	Stock #H9000
	18.432 MHz	Stock #H9050
	19.6608 MHz	Stock #H9100
	20.000 MHz	Stock #H9150

Frequency Tolerance: $\pm .05\%$ Overall 0-70°C

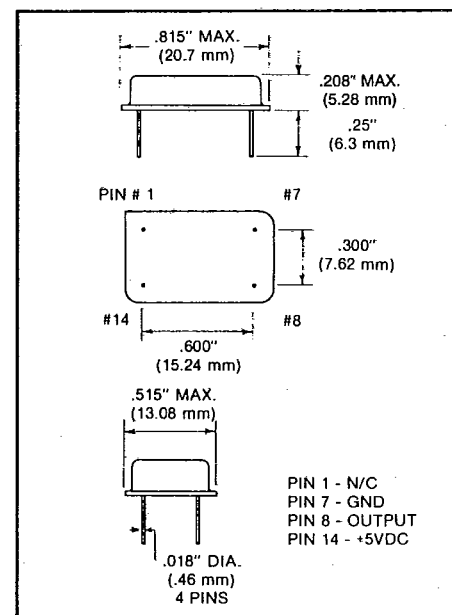
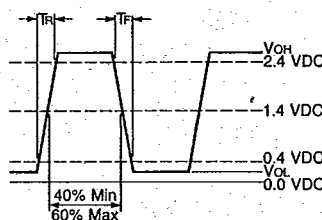
Hermetically Sealed Package

Mass spectrometer leak rate max.

1×10^{-8} atmos. cc/sec. of helium

	INPUT
	VALU I
Supply Voltage (V_{CC})	5V $\pm 10\%$
Supply Current (I_{CC}) max.	30mA
	OUTPUT
V_{OH} (Logic "1")	+2.4V min. ¹
V_{OL} (Logic "0")	+0.4V max. ²
Symmetry	60/40% ³
T_R , T_F (Rise & Fall Time)	< 10ns ⁴
Output Short	18mA min.
Circuit Current	1 to 10 TTL Loads ⁵
Output Load	
CONDITIONS	
¹ I_O source = 400 μ A max. ³ $V_O = 1.4V$ ⁵ 1.6mA per load	
² I_O sink = 16.0mA max. ⁴ (0.4V to 2.4V)	

OUTPUT WAVE FORM



Midland-Ross Corporation
NEL Unit

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Burlington, WI 53105

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