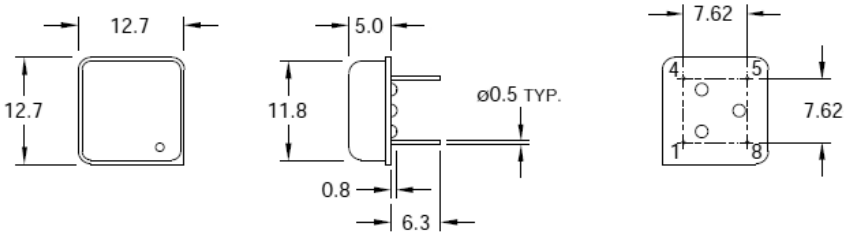
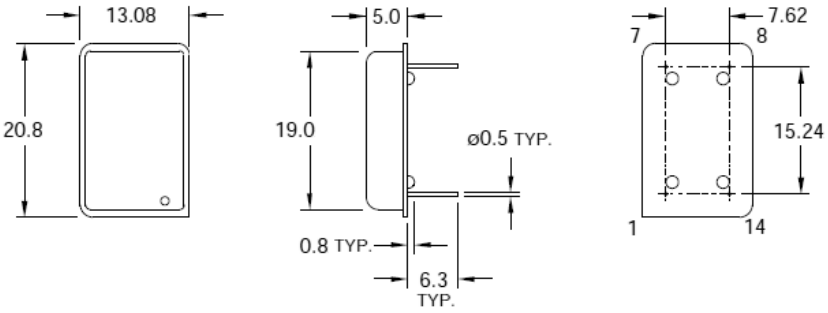
DIP 8



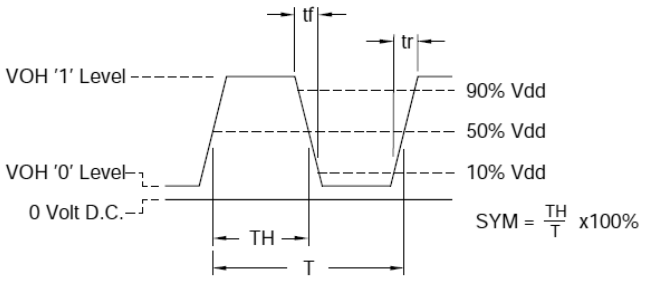
PIN CONNECTIONS
#1 NO CONNECTION ENABLE/DISABLE
#4 GROUND
#5 OUTPUT
#8 SUPPLY VOLTAGE

DIP 14

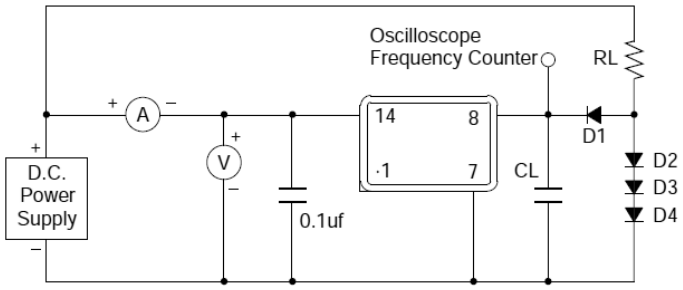


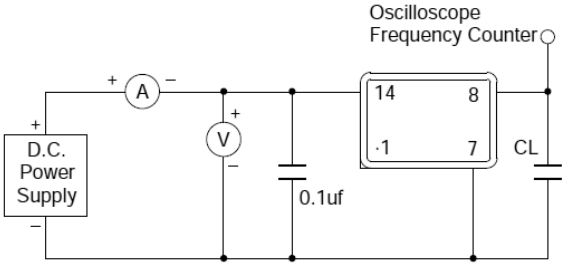
PIN CONNECTIONS
#1 NO CONNECTION ENABLE/DISABLE
#7 GROUND
#8 OUTPUT
#14 SUPPLY VOLTAGE

Output Waveform:



Test Circuits:





See Specifications and Part Numbering on next page

Note: The above specifications are typical only. Please contact our Sales Department for specific requirements.

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SPECIFICATIONS

Series Number	DIP 8 / DIP 14					
Frequency Range	750 KHz ~ 50 MHz		27.3 KHz ~ 160 MHz			27.3 KHz ~ 100 MHz
Overall Frequency Stability (Max) **(Note 1)** (see part number formatting below)	A = ±25ppm 0° to 70° B = ±50ppm 0° to 70° C = ±100ppm 0° to 70° D = ±10ppm 0° to 70°		E = ±25ppm -40° to 85° F = ±50ppm -40° to 85° G = ±100ppm -40° to 85° H = ±20ppm -40° to 85°			
Supply Voltage (V_{DD})	+1.0V ±5%	+1.2V ±5%	+1.8V ±5%	+2.5V ±5%	+3.3V ±5%	+5.0V ±5%
Part Number Code: (see part number formatting below)	K/L	I/J	G/H	E/F	C/D	A/B
Output Voltage Level (Min) "High","1" Level (Max) "Low","0"	 0.9V 0.1V	 1.08V 0.12V	 1.62V 0.18V	 2.25V 0.25V	 2.97V 0.33V	 4.5V 0.5V
Supply Current (Max)	25 MHz 4mA 50 MHz 5mA — —		25 MHz 5mA 50 MHz 8mA 100 MHz 10mA 160 MHz 15mA	25 MHz 5mA 50 MHz 10mA 100 MHz 15mA 160 MHz 20mA	25 MHz 5mA 50 MHz 12mA 100 MHz 30mA 160 MHz 35mA	25 MHz 5mA 50 MHz 15mA 100 MHz 40mA —
Disable Current	10µA (Max) at OE ≤0.3V					
Output Load (Max)	15pF ; 30pF load for frequencies up to 70 MHz. Contact Hy-Q for 50pF load.					
Rise/Fall Times (Max)	10 ns (Max.) ; 3ns (Typical). Measured between 10% to 90% wave form (C_L = 15pF)					
Duty Cycle / Symmetry **(Note 2)** (see part number formatting below)	'A': 40/60% (±10%) Maximum at 0.5 V_{DD} (Standard and default) 'B': 45/55% (±5%) Maximum at 0.5 V_{DD} (Option)					
Start-Up Time	10ms (Max) ; 5ms (Typical)					
Storage Temperature Range	-55°C to +150°C					
Ageing (Max)	±5ppm per year					
Output Enable/Disable (Function on Pin 1)	70% of V_{DD} (min) to enable output 30% of V_{DD} (max) to disable output					

Note (1): Inclusive of 25°C tolerance, operating temperature range, ±10% input voltage variation, load change, aging, shock and vibration.
Note (2): If symmetry is not required then standard defaults will apply.

Part Number Format:

(Package designator)	(Frequency Stability designator)	(Supply Voltage and Pin Number 1 option)	(Symmetry)	-	(Frequency)
8 or 14	'A' through 'H'	'A' through 'L'	'A' or 'B'		MHz

A: 5V, Pin 1—Not Connected	**G**: 1.8V, Pin 1—Not Connected
B: 5V, Pin 1—Enable/Disable	**H**: 1.8V, Pin 1—Enable/Disable
C: 3.3V, Pin 1—Not Connected	**I**: 1.2V, Pin 1—Not Connected
D: 3.3V, Pin 1—Enable/Disable	**J**: 1.2V, Pin 1—Enable/Disable
E: 2.5V, Pin 1—Not Connected	**K**: 1.0V, Pin 1—Not Connected
F: 2.5V, Pin 1—Enable/Disable	**L**: 1.0V, Pin 1—Enable/Disable

Example 1:- 14CAA-20.000
Represents: DIP14 Oscillator, ±100ppm between 0° to 70°, 5V with no connection on Pin 1, symmetry of 40/60%, 20 MHz

Example 2:- 8BDB-16.000
Represents: DIP8 Oscillator, ±50ppm between 0° to 70°, 3.3V enable/disable on Pin 1, symmetry of 45/55%, 16 MHz

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RoHS compliant REACH

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