

Rev. H

ECL Compatible HS-800/810 Series

Description

The HS-800/810 Series of quartz crystal oscillators provide MECL 10k and 10kH series compatible signals in industry standard four-pin DIP hermetic packages. Systems designers may now specify space-saving, cost-effective packaged ECL oscillators to meet their timing requirements.

HS-800

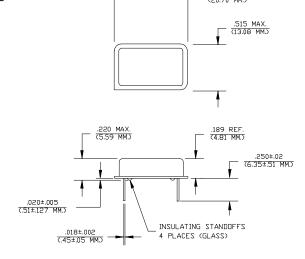
Pin	Connection	
1	N.C.	
7	V _{CC} Grd & Case	
8	V _{CC} Grd & Case Output	
14	V _{EE} -5.2V	

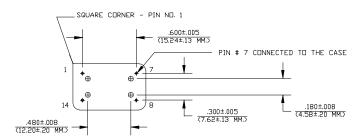
HS-810

Pin	Connection	
1	N.C.	
7	V ₌₌ -5.2V	
8	V _{EE} -5.2V Output	
14	V _{CC} Grd & Case	

Features

- Wide frequency range—15.0MHz to 250.0MHz
- User specified tolerance from ±20ppm
- Case at electrical ground
- Will withstand vapor phase temperatures of 253°C for 4 minutes maximum
- MECL 10k and 10kH series compatible output on Pin 8
- All metal, resistance weld, hermetically sealed package
- High shock resistance, to 3000g
- Space saving alternative to discrete component oscillators

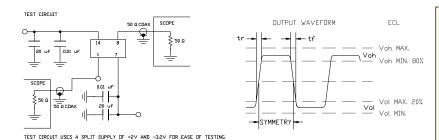






Continued ECL Compatible HS-800/810 Series

	PARAMETER	CONDITIONS	MINIMUM	MAXIMUM		
S	Supply voltage (V _{EE})		-5.46V	-4.94V		
Ę		Breakdown	-8.0V	+0.5V		
ris	Supply current (I _{CC})	V _{CC} or ground current	0.0 mA	80 mA		
Characteristic	Output current (I _O)	Low level output current	0.0 mA	±50.0 mA		
ha	Tolerance	User specified	±20ppm			
	Operating temperature (T _A)		0°C	70°C		
General	Storage temperature (T _S)		-55°C	125°C		
Ge						
S	Frequency ⁽³⁾		15.0MHz	250.0MHz		
stic	Symmetry	@-1.29V level	45/55%	55/45%		
Characteristics	Logic 0 (V _{OL}) ⁽²⁾		-1.95V	-1.60V		
支	Logic 1 (V _{OH}) ⁽²⁾		-1.02V	-0.74V		
ara	Rise & fall time (t _r ,t _f)	20-80% V _O		2.25 ns		
ဗ	Footnote:			•		
Output	⁽²⁾ V _{OL} , V _{OH} , referenced to ground					



This information has been carefully prepared and is believed to be entirely reliable. However, no responsibility is assumed for inaccuracies. NEL reserves the right to make changes at any time in order to improve design and supply the best product possible.

Specialty Oscillators for Unique Requirements

If the characteristics listed above do not meet your specific requirements, specialty solutions are often available.

For example, if you need better stability, extended temperature range, or tighter symmetry, NEL can provide a HS-809/819 series oscillator to serve your needs.

To let us know your special requirements, complete our Specialty Oscillator sheet. We will respond with the desired specialty oscillator, or discuss with you a solution that most closely meets your needs.

