CRYSTAL CLOCK OSCILLATORS

PECL Compatible SJ-870 Series

Description

The SJ-870 Series of quartz crystal oscillators provide MECL 10K and 10KH series compatible signals in a ceramic SMD package. Systems designers may now specify space-saving, cost-effective packaged PECL oscillators to meet their timing requirements.

XTAL Industry

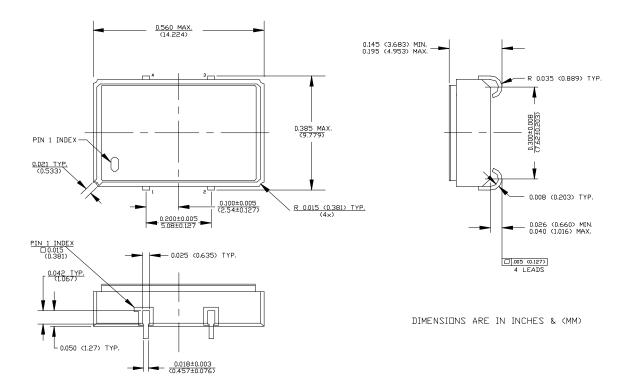
Pin	Connection	
1	N.C.	
2	V Ground	
3	V _{EE} Ground Output	
4	V _{cc} +5.0V	

JEDEC

Pin	Connection	
6	N.C.	
10	V _E Ground	
20	V _{EE} Ground Output	
24	V _{CC} +5.0V	

Features

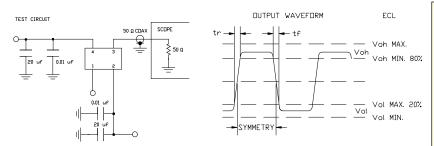
- Wide frequency range—15.0MHz to 250.0MHz
- User specified tolerance from ±20ppm
- Will withstand vapor phase temperatures of 253°C for 4 minutes maximum
- MECL 10K and 10KH series compatible output on Pin 3
- Space-saving alternative to discrete component oscillators
- High shock resistance, to 3000g
- Metal lid electrically connected to ground to reduce EMI
- Gold plated leads—Solder dipped leads available upon request





Continued PECL Compatible SJ-870 Series

cs	Supply voltage (V _{CC})			
C	cappi) romago (rCC)		4.75V	5.25V
= '	Supply current (I _{CC})	V _{CC} or ground current	0.0 mA	80 mA
Characteristics	Output current (I _O)	Low level output current	0.0 mA	±50.0 mA
<u>ra</u>	Tolerance	User specified	±20ppm	
i ha	Operating temperature (T _A)		0°C	70°C
	Storage temperature (T _S)		-55°C	125°C
era	Power dissipation (P _D)			420 mW
General	Lead temperature (T _L)	Soldering, 10 sec.		300°C
40	_		45.0141	050 01411
<u> </u>	Frequency		15.0MHz	250.0MHz
2	Symmetry	@V _{CC} -1.29V	45/55%	55/45%
e L	Logic 0 (V _{OL})		V _{CC} -1.95V	V _{CC} -1.60V
ac	Logic 1 (V _{OH})		V _{CC} -1.02V	V _{CC} -0.74V
a	Rise & fall time (t _r ,t _f)	20-80% V _O		2.25 ns



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 SJ-879 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.

