



14.0 x 8.95 x 4.7 mm

3.3 Vdc • HCMOS/TTL • J-LEADED • PLASTIC MOLDED • SURFACE MOUNT CRYSTAL CLOCK OSCILLATORS ASML

FEATURES:

- Industry standard J-Leaded terminals.
- Low current consumption.
- HCMOS output.
- Extended temperature -40°C to +85°C option.
- Plastic molded SMD, Reflow capable.
- Tristate Enable/Disable.
- 3.3Vdc operation.

APPLICATIONS:

- Provide clock signals for microprocessors and digital circuits.
- Communication equipment, AV and OA equipment

STANDARD SPECIFICATIONS

PARAMETERS	SPECIFICATIONS
Frequency Range (F_0)	1MHz - 160MHz
Operating Temperature (T_{OPR})	0°C to +70°C (See Options)
Storage Temperature (T_{STO})	-40°C to +85°C
Frequency Stability ($\Delta F / F_0$)	±100ppm max. (See Options)
Supply Voltage (V_{dd})	3.3Vdc ±10%
Input Current (I_{dd})	10mA max. ($F \leq 20$ MHz) ; 25mA max. ($F \leq 70$ MHz) 60mA max. ($F \leq 160$ MHz)
Duty Cycle or Symmetry	40 / 60% max. (See Options)
Rise and Fall Times (T_R / T_F)	6ns max.
Output Load	2TTL, 15pF max.
Output Voltage (V_{OH})	0.9 *Vdd min.
(V_{OL})	0.4Vdc max.
Start-up Time (T_{OSC})	10ms max.
Tristate Function (V_{IH})	"1" or Open: Oscillation $\geq 2.2V$
(V_{IL})	"0": (HiZ) $< 0.6V$ Output disabled in high impedance
Aging	±5ppm/ Year max.

* Pin 1 has internal pull-up resistor which allows Pin 1 to be left floating (enable high)

Test circuit, waveform, please see appendix B.

Environmental and mechanical specifications, see appendix C. Group 2.

Marking, see appendix G. Tape and Reel, see appendix H.(1,000 pcs./reel).

A bypass capacitor 0.01 μF is required from Vdd to Gnd.

Application notes, see appendix A. Reflow profile, see appendix E.

ORDERING OPTIONS

ASML - Frequency - Temperature - Frequency Stability - Duty Cycle - Packaging

XX.XXXXX MHz

-D for -10°C to +60°C
-E for -20°C to +70°C
-F for -30°C to +70°C
-N for -30°C to +85°C
-L for -40°C to +85°C

-R for ± 25ppm max
-K for ± 30ppm max
-C for ± 50ppm max

-S for 45/55% @ 1/2Vdd

-T
(Tape & Reel)

Dimensions: Inches (mm)

PIN NO.	FUNCTION
1	Tristate Enable
2	GND / Case
3	Output
4	Vdd

NOTE: Left blank if standard • All specifications and markings subject to change without notice

29 Journey • Aliso Viejo, CA 92656 • USA

(949) 448-7070 • FAX: (949) 448-8484

E-MAIL: abinfo@abracon.com • INTERNET ADDRESS: www.abracon.com

ABRACON IS
ISO 9001 / QS 9000
CERTIFIED

