

HCMOS/TTL COMPATIBLE CERAMIC SURFACE MOUNT CRYSTAL CLOCK OSCILLATORS ASL



FEATURES:

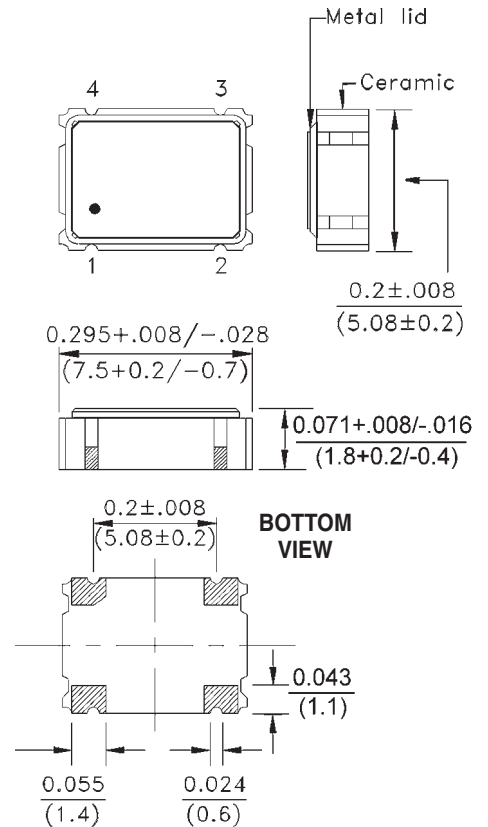
- Leadless chip carrier (LCC), low profile.
- HCMOS and TTL Compatible.
- Tristate Enable/Disable Function.
- High Density Surface-Mount Applications.
- Available optional -40°C to 85°C extended temperature.
- Packaging: Tape and Reel.

APPLICATIONS:

- Provide clock signals for microprocessors and digital circuits.
- High Output drive capability applications.

STANDARD SPECIFICATIONS

PARAMETERS	SPECIFICATIONS
Frequency Range (F ₀)	1.544 MHz - 125 MHz
Operating Temperature (T _{OPR})	-10°C to +70°C (See Options)
Storage Temperature (T _{STO})	-55°C to +125°C
Frequency Stability (ΔF/F ₀)	± 100 ppm max. (See Options)
Supply Voltage (V _{DD})	5 Vdc ± 10%
Input Current (I _{DD})	30 mA max. for F ≤ 32 MHz 45 mA max. for F ≤ 50 MHz 50 mA max. for F ≤ 125 MHz
Duty Cycle or Symmetry	40 / 60% max. @ 1/2 V _{DD} (See Options)
Rise and Fall Times (T _R / T _F)	6 ns max. for F < 100 MHz 4 ns max. for F ≥ 100 MHz
Output Load	10TTL or 15 pF (50pF max.) for F ≤ 50 MHz 5TTL (25 pF) for F ≤ 100 MHz 5TTL (15 pF) for F ≤ 125 MHz
Output Voltage	0.9 * V _{DD} min. (V _{OH}) 0.4 V _{DC} max. (V _{OL})
Start-up Time (T _{OSC})	10 ms max.
Tristate Function (V _{IH})	"1" or Open: Oscillation ≥ 2.2V
(V _{IL})	"0": Output disabled in high impedance (Hi Z) < 0.8V



Dimensions: Inches (mm)

(*) Pin 1 has internal pull-up resistor which allows Pin 1 to be left floating (enable high)
For test circuit, waveforms, please see page 67.

Environmental and mechanical specifications on page 68, Group 2. Marking, see p. 78.

A bypass capacitor 0.01 μF is required from V_{DD} to Gnd. See page 60.

Tape and Reel, (1,000 pcs./reel) see pages 74-75.

ORDERING OPTIONS

ASL - Frequency - Temperature - Overall Freq. Stability - Duty Cycle - 50 - 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

-S for 45/55% @ 1/2 V_{DD}
-S1 for 45/55% @ 1.4 V_{DC}

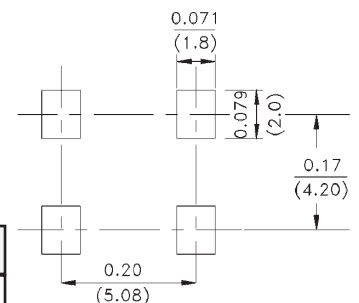
-R for ± 25 ppm max
-K for ± 30 ppm max
-H for ± 35 ppm max
-C for ± 50 ppm max

50 pF load
output drive

-T
(Tape & Reel)

PIN NO.	FUNCTION
1	Tristate E/D
2	GND / Case
3	Output
4	V _{DD}

RECOMMENDED LAND PATTERN



ABRACON IS
ISO 9001 / QS 9000
CERTIFIED

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

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