

LOW FREQUENCY CERAMIC SURFACE MOUNT MICROPROCESSOR CRYSTAL

ABC2

RoHS compliant with exemption of Pb in glass
[exempt per RoHS 2002/95/EC Annex (5)]

RoHS
Compliant



11.6 x 5.5 x 2.0 mm

FEATURES:

- Low frequency in small size SMD
- 2.0mm height ideal for high density circuit boards
- Ceramic package offers excellent environmental & heat resistance
- Extended temperature -40°C to +85°C for industrial applications

APPLICATIONS:

- Wide range in communication & measuring equipment
- Commercial & Industrial applications
- Automotive electronics applications

STANDARD SPECIFICATIONS:

PARAMETERS

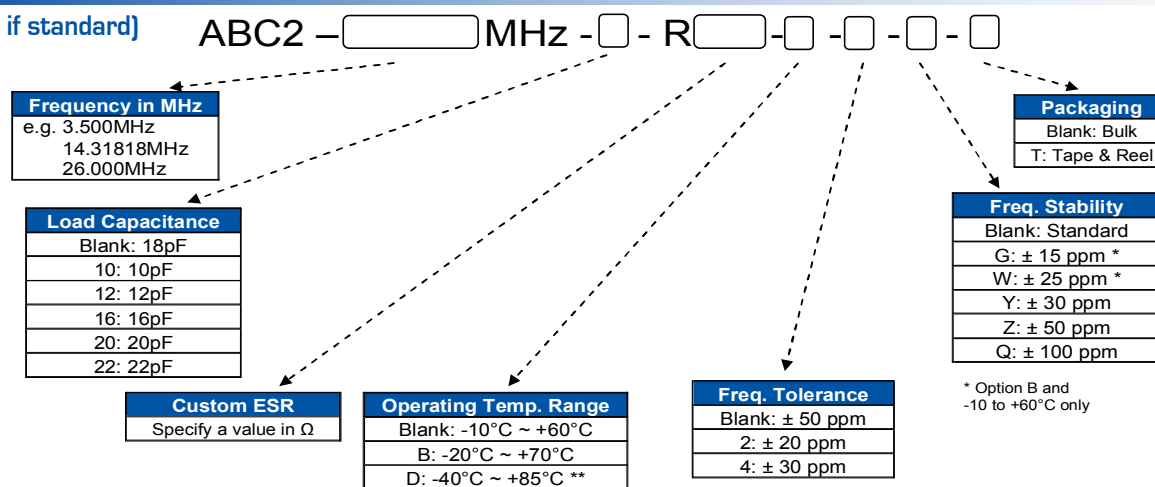
ABRACON P/N	ABC2
Frequency Range & Operation Mode	3.200MHz to 30.000MHz (Fundamental, AT) 30.000MHz to 70.000MHz (3rd OT, AT)
Operating Temperature Range	-40 °C to + 85 °C (Guaranteed oscillation only. For tighter frequency stability over temperature (option-D), see stability options below)
Storage Temperature	-55°C to +125°C
Frequency Tolerance at +25°C	±50ppm
Frequency Stability (Ref to +25° C):	below 6.0MHz: ±50ppm (-10 °C to +60 °C) Standard above 6.0MHz: ±30ppm (-10 °C to +60 °C) Standard (Please specify Op. Temp and Temp stability if otherwise. See options)
Equivalent Series Resistance	See Table 1
Shunt Capacitance C0	7pF max
Load Capacitance CL	18pF (see options)
Drive Level	100µW max.
Aging (first year) 25°C ± 3°C	± 5 ppm max.
Insulation Resistance	500 MΩmin. at 100 Vdc ±15V

TABLE 1

Frequency Ranges	Operation mode	ESR (max)	Frequency Ranges	Operation mode	ESR (max)
3.200MHz ~ 3.499MHz	Fundamental	200 Ω	7.000MHz ~ 7.999MHz	Fundamental	50 Ω
3.500MHz ~ 3.999MHz	Fundamental	140 Ω	8.000MHz ~ 10.999MHz	Fundamental	45 Ω
4.000MHz ~ 4.399MHz	Fundamental	120 Ω	11.000MHz ~ 11.999MHz	Fundamental	40 Ω
4.400MHz ~ 4.899MHz	Fundamental	100 Ω	12.000MHz ~ 14.999MHz	Fundamental	35 Ω
4.900MHz ~ 5.999MHz	Fundamental	80 Ω	15.000MHz ~ 36.000MHz	Fundamental	30 Ω
6.000MHz ~ 6.999MHz	Fundamental	60 Ω	27.000MHz ~ 70.000MHz	3 rd OT	100 Ω

OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)



** Option Y, Z, and Q only for ≥ 6.0MHz.
Option Z, and Q only for <6.0MHz.

ABRACON IS
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Visit www.abracon.com for Terms & Conditions of Sale **Revised: 04.05.10**
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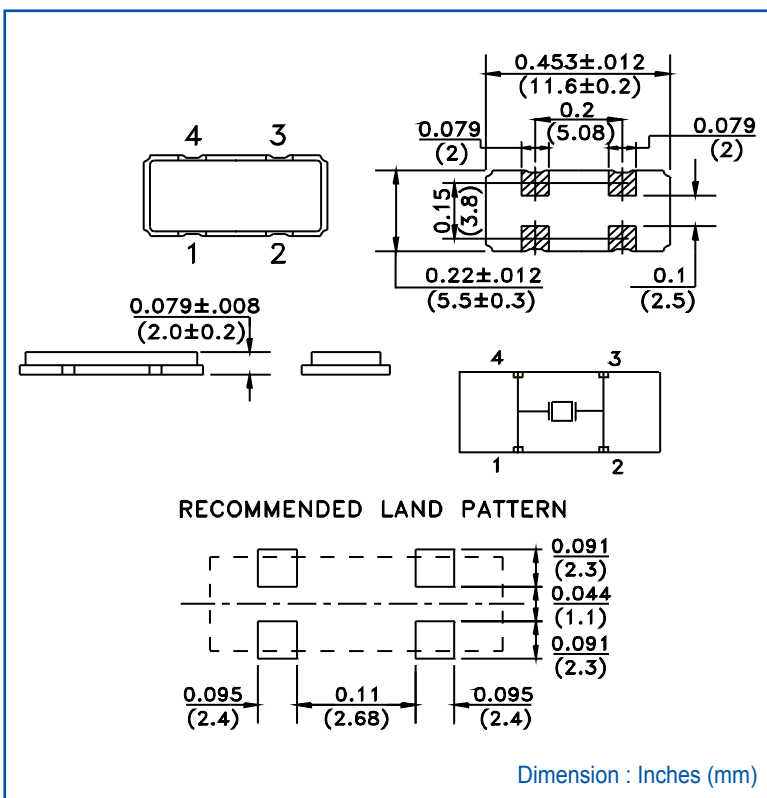
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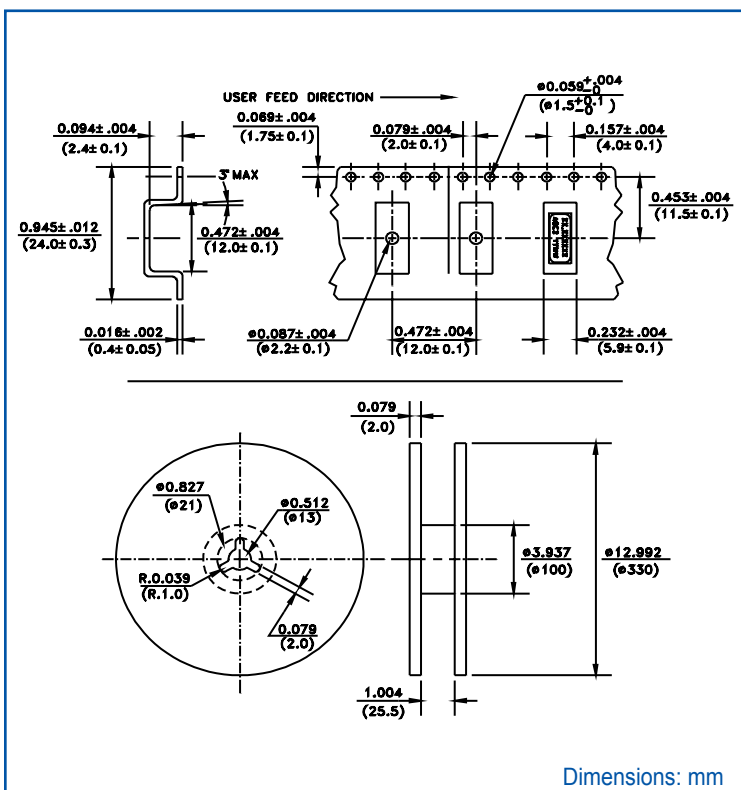


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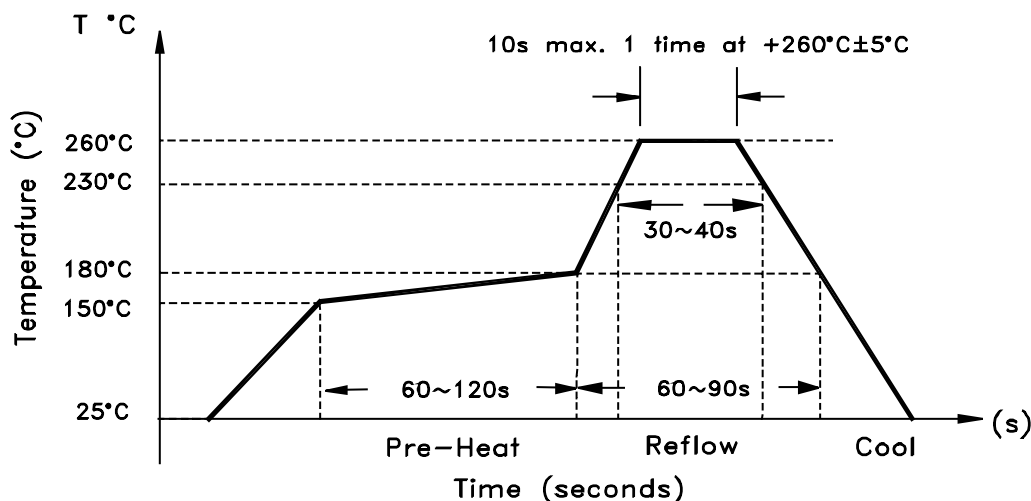
OUTLINE DRAWING:



TAPE & REEL: T= tape and reel (2,000pcs/reel)



REFLOW PROFILE:



Need a test socket for the ABC2 Series? To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, [click here](#). P/N AXS-1155-04-01

NOTE: Abracon manufactured products are intended for general commercial and industrial use. For applications requiring high reliability and/or presenting extreme operating environment, written consent & authorization from Abracon is required.

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