



HIGH FREQUENCY, SURFACE-MOUNT, WASHABLE INDUSTRIAL GRADE BUILT-IN CAP CERAMIC RESONATORS AWSCR Series

FEATURES:

- Industrial grade.
- High stability washable type, reflow capable.
- Small size, light weight
- Excellent environmental resistance.

APPLICATIONS:

- Remote control systems in vehicles.
- Telephones.
- Industrial electric appliances.
- Clock oscillation for microcontrollers.
- Household electric appliances.
- Mobile phone, DVD, CD-ROM

STANDARD SPECIFICATIONS

Package Style	Frequency Range (MHz)	Frequency Tolerance (% at 25°C)	Stability (% at -40°C to 125°C)	Aging (10 yrs)	Total
7230	2.00 ~ 6.00	±0.5% (see options)	±0.3% (see options)	±0.2% (see options)	±1.0%
7230	6.01 ~ 8.00	±0.5% (see options)	±0.3% (see options)	±0.2% (see options)	±1.0%
3731 or 2520	8.01 ~ 13.49	±0.5% (see options)	±0.9% (see options)	±0.3% (see options)	±1.7%
3731 or 2520	13.50 ~ 20.00	±0.5% (see options)	±0.3% (see options)	±0.1% (see options)	±0.9%
3731 or 2520	20.01 ~ 50.00	±0.5% (see options)	±0.3% (see options)	±0.1% (see options)	±0.9%

Operating temperature: -40°C to 125°C

Storage temperature: -40°C to 125°C

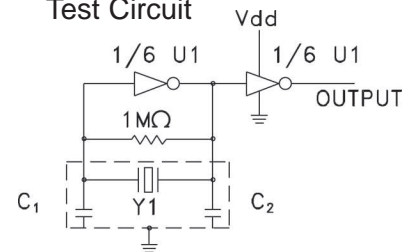
(*) Stability vs. temperature: ±0.3% @ -20°C to +80°C

Packaging: Option Tape and Reel 2,000pcs (7230) and 4,000pcs (3731 or 2520)

We perform IC characterization to match your application.

Environmental and mechanical specification, Group 5A.

Test Circuit



U1: CD4069UB
74HCU04

Y1: RESONATOR

C₁ C₂: 30pF ± 20% (Built-in)

ORDERING OPTIONS

AWSCR - Frequency - CXX - I0XX - S0XX - A0XX - 3731 - Packaging

XX Cap Value

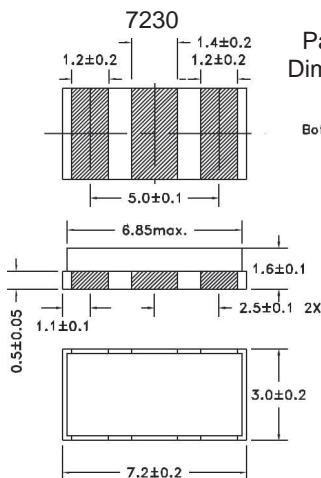
0XX: % Freq. Stability (**)

- T (Tape and reel)

0XX: % Freq. Tolerance (**)

0XX: % Aging (**)

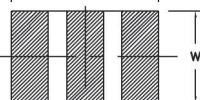
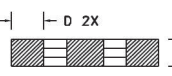
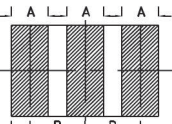
3731 or 2520
for 8.01MHz to 50MHz



Package Dimensions

Bottom View

3731 or 2520



(**) Please contact us for availability.

Type	3731	2520
L ± 0.2	3.7	2.5
W ± 0.2	3.1	2.0
H	1.30 ± 0.1	1.5 max.
A	0.5	0.5
B	1.60 ± 0.2	1.00 ± 0.2
C	1.85 ± 0.3	1.25 ± 0.2
D	0.5	0.5

ex: AWSCR - 4.00MHz - C15 - I015 - S03 - A01T

C₁ = C₂ = 15pF
±0.15% of tolerance
±0.3% of stability
±0.1% of aging

Dimensions: mm



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

29 Journey • Aliso Viejo, CA 92656
(949) 448-7070 • FAX: (949) 448-8484

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

ABRACON IS
ISO 9001 / QS 9000
CERTIFIED