

# CERAMIC SMD MICROPROCESSOR CRYSTAL



11.5 x 5.5 x 2.0mm

ABC2

\* RoHS COMPLIANT

## FEATURES:

- RoHS compliant
- Low frequency in small size SMD
- 2.0mm height ideal for high density circuit boards
- Excellent environmental and heat resisting due to ceramic package
- Extended temperature -40°C to + 85°C for industrial applications

## APPLICATIONS:

- Commercial Applications
- Industrial Applications
- Communication, Test equipment
- Measuring equipment

## STANDARD SPECIFICATIONS:

PARAMETERS	
Frequency Range	3.5 MHz to 30.0 MHz
Operation Mode	Fundamental, AT
Operating Temperature	- 10°C to + 60°C (see options)
Storage Temperature	- 55°C to + 125°C
Frequency Tolerance @ 25°C	± 50 ppm max. (see options)
Frequency Stability	± 50 ppm max. (see options)
Equivalent Series Resistance	See table 1
Shunt Capacitance C0	7 pF max.
Load Capacitance CL	18 pF (see options)
Drive Level	100 µW max.
Aging (First Year) @ 25°C ± 3°C	± 5ppm max.
Insulation Resistance	500 MΩ min at 100Vdc ± 15 Vdc

FREQ (MHz)	ESR (Ω)max.	TEMP -D
3.500 - 3.999	200	±150
4.000 - 5.999	150	±100
6.000 - 9.999	100	±80
10.00 - 13.99	80	±60
14.00 - 30.00	50	±60

## MARKING:

- XX.XXX Frequency
- ABC2 YYWW YYWW date code, e.g. 0045

## ALTERNATE MARKING:

- C AAYM Y for year, e.g. 6 for 2006, M for month, refer to table
- XX.XXXM XX.XXX for Frequency in MHz

Month	1 2 3 4 5 6 7 8 9 10 11 12
Mark	1 2 3 4 5 6 7 8 9 X Y Z

## OPTIONS AND PART IDENTIFICATION (Left blank if standard):

ABC2 - Frequency - CL - ESR - Temperature - Tolerance - Stability - Packaging

### Load Capacitance option:

Please specify **CL** for pF or **S** for Series

### ESR option:

RXXX (value in ohms)

### Freq Tolerance options:

4 for ± 30 ppm max.

### Temperature options:

- E** for 0°C to +70°C
- B** for -20°C to +70°C
- C** for -30°C to +70°C
- N** for -30°C to +85°C
- D** for -40°C to +85°C\*

### Packaging option:

T for Tape and Reel  
(1,000pcs/reel)

### Freq Stability options:

- Y** for ± 30 ppm
- H** for ± 35 ppm
- Z** for ± 100 ppm

**SPECIAL REQUIREMENTS:** This product is RoHS compliant.

Pb in glass (exempt per RoHS 2002/95/EC Annex (5))

## OUTLINE DRAWING:

