



CERAMIC SEAM SEALED SURFACE MOUNT PACKAGE - XCS42 Series

FEATURES

- RoHS Compliant (Pb-Free), Ultra Miniature Design
- AT-cut Crystal, High Precision and Excellent Aging
- Industry de factor Standard Footprint for High Density Surface Mounting
- Frequency Stability for Bluetooth Applications

SPECIFICATIONS

Frequency Range 13 MHz to 32 MHz
Resonance Mode 1 = Fundamental (13 to 32 MHz)

Calibration Tolerance @25°C A = ±50 ppm; B = ±30 ppm; C = ±20 ppm; D = ±15 ppm; E = ±10 ppm
Frequency Stability Ref @25°C 50 = ±50 ppm; 25 = ±25 ppm; 10 = ±10 ppm; 5 = ±5 ppm
Temperature Range A = 0°C to 70°C; B = -40°C to 85°C; C = -10°C to 60°C; D = -20°C to 70°C
Crystal Aging ±1 ppm / year Maximum
Storage Temperature -40°C to 85°C

Load Capacitance (CL) CL = 9 pF (Standard), 12 pF, 16 pF, others, or S = Series resonant
Shunt Capacitance 1.2 pF Typical
Drive Level 0.1 mW Maximum

Creating a Part Number **XCS42-16M000-1 C 25 C 9 -options**

Product Series _____
 Frequency _____
 Resonance Mode: 1 = Fundamental _____

Load Capacitance: 9, 12, 16, S = Series resonant
 Operating Temperature Range: A = 0 to 70°C
 Frequency Stability: B = -40 to 85°C
 C = -10 to 60°C

Tolerance at 25°C: A = ±50 ppm 50 = ±50 ppm
 B = ±30 ppm 30 = ±30 ppm
 C = ±20 ppm 10 = ±10 ppm

Equivalent Series Resistance

Frequency (MHz)	Mode	Max ESR (Ohms)
13.000	Fund	80
16.000	Fund	45
26.000	Fund	40
32.000	Fund	40

OUTLINE DRAWING

