



PLASTIC MOLDED SURFACE MOUNT AT-CUT CRYSTALS - XPS Series

FEATURES

- ● Thermoplastic Surface Mount Package Suited for Reflow Soldering
- ● Microprocessor Crystal Specifications, AT-cut
- ● Industry de factor Standard Footprint
- ● Excellent for High Density Circuit Boards

SPECIFICATIONS

Frequency Range □ □ 3.579545 MHz to 90.000 MHz
 Resonance Mode □ □ 1 = Fundamental (3.579545 to 30 MHz); 3 = 3rd Overtone (30.10 to 90 MHz)

Calibration Tolerance @25°C □ A = ±50 ppm (Standard); B = ±30 ppm
 Frequency Stability Ref @25°C □ 100 = ±100 ppm; 50 = ±50 ppm; 30 = ±30 ppm; 10 = ±10 ppm
 Temperature Range □ □ A = 0°C to 70°C; B = -40°C to 85°C; C = -10°C to 60°C; G = -10°C to 70°C
 Crystal Aging □ □ ±5 ppm / 1st year Maximum
 Storage Temperature □ □ -40°C to 90°C

Load Capacitance (CL) □ □ CL = 20 pF (Standard), 16 pF, 18 pF, others, or S = Series resonant
 Shunt Capacitance □ □ 7.0 pF Maximum
 Drive Level □ □ 0.1 mW Maximum

Typical Part Number □ □ **XPS-25M000-1 A 100 G 20** -options

Product Series ————
 Frequency ————
 Resonance Mode: 1 = Fundamental
 3 = 3rd Overtone
 5 = 5th Overtone

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

Load Capacitance: 18, 16, 20, S = Series resonant
 Operating Temperature Range: A = 0 to 70°C
 Frequency Stability: B = -40 to 85°C
 G = -10 to 70°C
 100 = ±100 ppm
 50 = ±50 ppm
 25 = ±25 ppm

Equivalent Series Resistance

Frequency (MHz)	Mode	Max ESR (Ohms)
3.579 - 4.000 □	Fund □	200
4.000 - 4.999 □	Fund □	150
5.000 - 6.999 □	Fund □	100
7.000 - 9.999 □	Fund □	80
10.000 - 12.999 □	Fund □	50
13.000 - 30.000 □	Fund □	35
30.000 - 90.000 □	3rd O/T □	100

OUTLINE DRAWING

