

LOW PROFILE CERAMIC SURFACE MOUNT QUARTZ CRYSTALS



6.0 X 3.6 X 1.2mm

ABMM2

FEATURES:

- Low in height (1.2 mm max.)
- Tight tolerance and stability available

- Seam welded ceramic package
- Suitable for solder reflow

APPLICATIONS:

- PCMCIA Applications
- Thin equipment

STANDARD SPECIFICATIONS:

PARAMETERS	
Frequency Range	8.00 MHz - 110.00 MHz
Operation Mode	
Fundamental	8.0 MHz - 30.0 MHz
Third-Overtone	30.01 MHz - 100.0 MHz
Fifth-Overtone	F ~ 90.00 MHz - 110 MHz
Operating Temperature	-10°C to + 60°C (See Options)
Storage Temperature	- 40°C to + 85°C
Frequency Tolerance @ 25°C	± 20 ppm max. (See Options)
Frequency Stability over Temp.	± 20 ppm max. (See Table 1) ± 100 ppm @ -10 °C to + 60° C for Fundamental BT
Equivalent Series Resistance	See Table 1
Shunt Capacitance C ₀	7pF max.
Load Capacitance C _L	18pF (see options)
Drive Level	500µW max., 100µW correlation
Aging at 25°C First Year	± 2ppm max.
Insulation Resistance	500MΩ min. @ 100Vdc ± 15V

TABLE 1

Frequency (MHz)	ESR (Ω)
8.0 - 30.0 (Fund)	50
30 - 100 (3rd OT)	60
90 - 110 (5th O/T)	80

MARKING:

TUH or XXX.X (See note)

AMM2 ZY (See note)

XXX.X for F >=100MHz

Ex: 110.0 for 110MHz

ZY : Date Code, Z = Month (A to L),

Y = Year (0 for 2000)

TUH : Frequency for F <99.9999MHz

T= First " ten " digit of frequency

U = First " unit " of frequency

H = First " tenth " of frequency

Example: 128 for 12.8 MHz

999 for 99.9 MHz

OPTIONS AND PART IDENTIFICATION (Left blank if standard):

ABMM2 - Freq - CL - ESR - Temp. - Tolerance - Temp & Stability - Mode - Packaging

CL option:

Please enter load cap. in pF or S for Series

Frequency tolerance options:

1 for ± 10 ppm max.

7 for ± 15 ppm max.

Operating mode options:

F for Fundamental AT for F >30 MHz

FB for Fundamental BT for F >30 MHz

O for 3rd Overtone for F >= 90 MHz

Packaging option:

T for Tape and Reel

(1000 pcs/reel)

ESR Options:

RXXX (Value in Ω max.)

Temp. & Frequency stability options:

A1 for ± 4 ppm max. @ 0°C to +50°C

A2 for ± 5 ppm max. @ 0°C to +50°C

A3 for ± 10 ppm max. @ 0°C to +50°C

A4 for ± 20 ppm max. @ 0°C to +50°C

B1 for ± 4 ppm max. @ -10°C to +50°C

B2 for ± 5 ppm max. @ -10°C to +50°C

B3 for ± 10 ppm max. @ -10°C to +50°C

B4 for ± 20 ppm max. @ -10°C to +50°C

C2 for ± 5 ppm max. @ -10°C to +60°C

C1 for ± 10 ppm max. @ -10°C to +60°C

E1 for ± 10 ppm max. @ -20°C to +70°C

E2 for ± 20 ppm max. @ -20°C to +70°C

D1 for ± 20 ppm max. @ -40°C to +85°C

OUTLINE DRAWING:

