CERAMIC SMD ULTRA MINIATURE QUARTZ CRYSTAL



*RoHS COMPLIANT



2.5 X 2.0 X 0.55mm

> FEATURES:

- RoHS compliant
- Suitable for reflow
- Tight stability available
- Ceramic package seam welded sealing assures high precision and reliability.

> APPLICATIONS:

- Blue-tooth, Wireless applications
- Computers, Modems, Microprocessors
- Communication, Test equipment
- · High density applications
- PCMCIA

> STANDARD SPECIFICATIONS:

PARAMETERS	
Frequency Range	16.000 MHz - 80.000 MHz
Operation Mode	Fundamental
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	± 30 ppm max. (see options)
Equivalent Series Resistance	See table 1
Shunt Capacitance C0	7 pF max.
Load Capacitance CL	10 pF (see options)
Drive Level	200 μW max., 10 μW correlation
Aging (First Year) @ 25°C ± 3°C	± 5ppm max.
Insulation Resistance	$500~\text{M}\Omega$ min at $100\text{Vdc} \pm 15~\text{Vdc}$

TABLE 1		
FREQ (MHz)	ESR (Ω)max.	
20.000 - 29.999	100	
30.000 - 60.000	60	

> MARKING:

- XX.X Frequency

- A ZYX ZY:date code, e.g. L2; Z:

month A to L;

Y: last digit of year;

X: Traceability code

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

ABM11 - Frequency - CL - ESR - Temperature - Tolerance - Stability - Packaging

Load Capacitance option: ESR option: Freq Tolerance options:

Please specify **CL in pF** or RXXX (value in ohms) **7** for ± 15 ppm

S for Series (min 10 pF) Packaging option: 3 for \pm 25 ppm T for Tape and Reel 4 for \pm 50 ppm

(1,000pcs/reel)

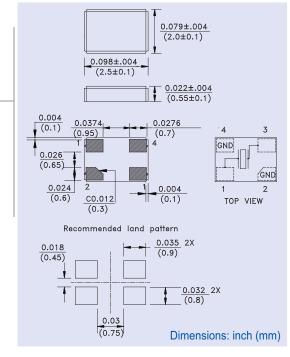
±10ppm ±15ppm ±20ppm ± 30ppm ±50ppm ±100ppm 120 130 150 I 100 I 10 I 15 Χ A 15 A 20 STD A 50 A 100 Χ Χ E 20 E 30 E 50 E 100 C 30 C 50 C 100 Χ Χ Х

D 30

D 50

D 100

> OUTLINE DRAWING:



Temp. 0 to 50

-10 to 60

-20 to 70

-30 to 70

-40 to 85

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Χ



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