SPECIFICATIONS

REV.	ECO	REVISIONS		
		DESCRIPTION	DATE	APPROVED
Α	969	Change CL from 13pF to 18pF	1/13/2005	KW
В	980	Change CL from 18pF to 13pF	1/13/2005	KW

Frequency: 12.288MHz

Operation mode: Fundamental AT Operating temperature: -20° C to +70° C Storage temperature: -40° C to +85° C Frequency tolerance: ±30 ppm max. Frequency stability: ±50 ppm max.

Equivalent series resistance: 60W max. Shunt capacitance C0: 7 pF max.

Load capacitance CL: 13pF

Drive level: 500 mW max, 100µW correlation Aging @ 25° C per year: ± 2 ppm max.

Insulation resistance: 500 MW min. with 100Vdc ± 15V

PACKAGING:

Drop Test

-T = Tape and Reel (1000pcs/reel)

SPECIAL REQUIREMENTS

This part must be RoHS compliant

ENVIRONMENTAL AND MECHANICAL SPECIFICATIONS:

Temperature Cycling ±5ppm max., -40°C to +85°C at 95% RH ten times for 24 hours, 3 cycles then for 2 hours at

25°C ± 3°C.

Thermal Shock Exposure at extreme temperature -40°C and +85°C for 5 minutes, 3 Cycles. Vibration Frequency with an amplitude of 1.5mm sweeping between 10Hz to 55 Hz within 1 minute

> for 2 hours minimum on each axis (X, Y, Z). Natural drop on a hard wood board at 75cm, 3 times.

85%RH at +85°C. 96 hours minimum. Humidity

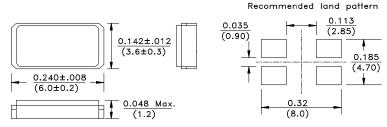
Marking Permanency Dip units in solvent, 10 strokes with brush, 3 timees Fine Leak Test Helium leak, less than 2 x 10-8 atm.cc/sec.

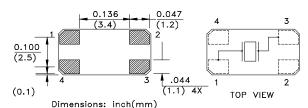
Gross Leak Test 100% in De-ionized H2O or Perfluoro carbon for 60s min.

Solderability Test Dip units in solder (230°C ± 5°C) for 5 seconds. More than 95% of surface being tested

should be coated uniformaly with solder.

OUTLINE DRAWING





Dimensions: inch (mm) TOLERANCES: UNLESS OTHERWISE SPECIFIED: XXX: ± 0.008 (0.2) ANGLE: ±1°

Marking:

Date code

Z month (A to L)

Y last digit of year (2 for 2002)

12.288

A-112 ZY

P/N APPROVALS DATE BY DRAWN TITLE PROD. MGR. ENGR. MGR. DWG. NO. QUALITY PURCH.

500710

KEY PRODUCT CHARACTERISTICS FIT/FUNCTION ABRACON CORPORATION 30332 ESPERANZA, RSM CA. 92688 (949) 546-8000 FAX: (949) 546-8001

ABMM2-112-12.288MHz

SAFETY/COMPLIANCE

CERAMIC SURFACE MOUNT QUARTZ CRYSTAL

REV. SIZE 451891

Α 1 of 1

SHEET

All specifications and markings subject to change without notice.