

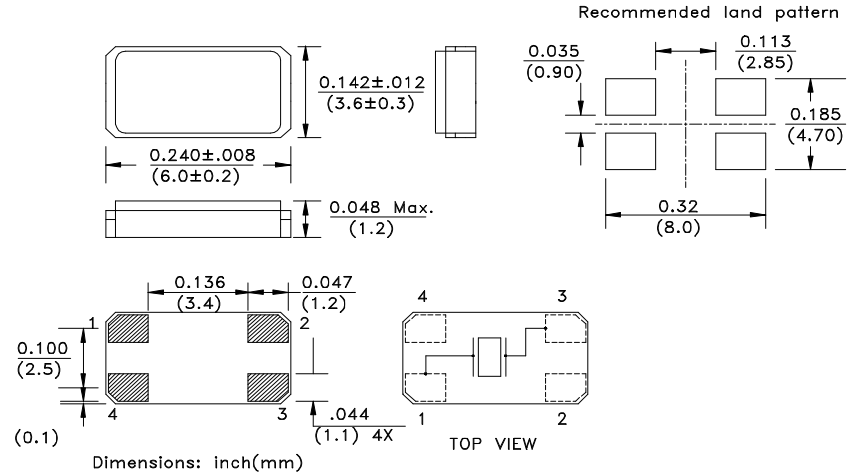
SPECIFICATIONS

REV.	ECO	DESCRIPTION	DATE	APPROVED
A	969	Change CL from 13pF to 18pF	1/13/2005	KW
B	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**

Marking: 12.288
 A-112 ZY
 Date code _____ ↑
 Z month (A to L)
 Y last digit of year (2 for 2002)

OUTLINE DRAWING



PACKAGING:

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

SPECIAL REQUIREMENTS

This part must be RoHS compliant

ENVIRONMENTAL AND MECHANICAL SPECIFICATIONS:

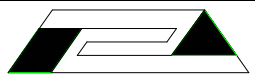
Temperature Cycling	±5ppm max., -40°C to +85°C at 95% RH ten times for 24 hours, 3 cycles then for 2 hours at 25°C ± 3°C.
Thermal Shock	Exposure at extreme temperature -40°C and +85°C for 5 minutes, 3 Cycles.
Vibration	Frequency with an amplitude of 1.5mm sweeping between 10Hz to 55 Hz within 1 minute for 2 hours minimum on each axis (X, Y, Z).
Drop Test	Natural drop on a hard wood board at 75cm, 3 times.
Humidity	85%RH at +85°C, 96 hours minimum.
Marking Permanency	Dip units in solvent, 10 strokes with brush, 3 times.
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 uniformly with solder.

All specifications and markings subject to change without notice.

Dimensions: inch (mm)

TOLERANCES:
 UNLESS OTHERWISE SPECIFIED:
 .XXX: ± 0.008 (0.2)
 ANGLE: ± 1°

APPROVALS	BY	DATE
DRAWN		
PROD. MGR.		
ENGR. MGR.		
QUALITY		
PURCH.		

KEY PRODUCT CHARACTERISTICS			
SAFETY/COMPLIANCE	FIT/FUNCTION		
	ABRACON CORPORATION 30332 ESPERANZA, RSM CA. 92688 (949) 546-8000 FAX: (949) 546-8001		
	P/N ABMM2-112-12.288MHz TITLE CERAMIC SURFACE MOUNT QUARTZ CRYSTAL		
DWG. NO.	REV.	SIZE	SHEET
451891	B	A	1 of 1

500710

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