

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

**PACKAGE DIMENSIONS (mm)**

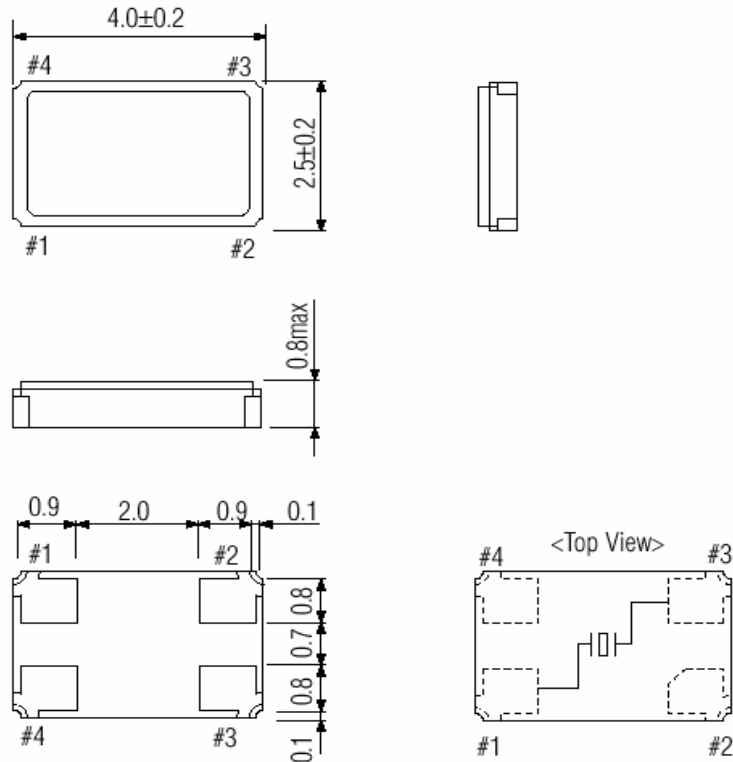


Figure 1: Top, Side, Bottom and End Views

**ELECTRICAL SPECIFICATIONS**

Frequency: 32.000 MHz  
 Frequency Tolerance @ +25°C: ± 10 ppm Max.  
 Frequency Stability (-20 to +75°C): ± 10 ppm Max.  
 Crystal Cut: AT Strip  
 Load Capacitance (CL): 13 pF  
 Recommended Drive Level: 100 µW Max.  
 Effective Series Resistance: 50 Ω Max.  
 Shunt Capacitance: 5 pF Max.  
 Mode of Operation: Fundamental  
 Storage Temperature: -40 to +85°C  
 Operating Temperature: -20 to +70°C  
 Aging (first year): ± 5 ppm Max.  
 Package Type: ECS-42

P/N: ECS-320-13-42-CKM-TR



ECS INC. INTERNATIONAL 1105 S. Ridgeview Olathe, KS 66062 (913) 782-7787			
SIGNATURES		DATE	
DRN <b>BL</b>		2/23/2006	
CHK <b>RC</b>		2/23/2006	
APP <b>DK</b>		2/23/2006	
TITLE		<b>32.000 MHz Crystal, 13 pF SMD Crystal ±10/10 ppm -20 ~+70°C RoHS</b>	
SIZE A	DWG NO. ECS-320-13-42-CKM-TR	REV	
Dimensions in mm		CAGE CODE: 1G8B7	SHEET 1 OF 1