

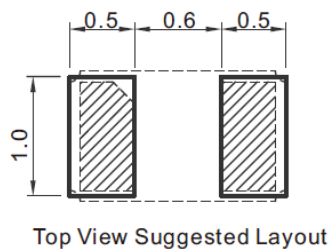
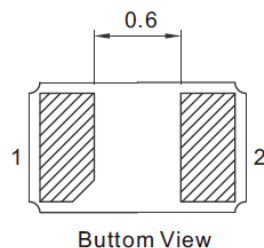
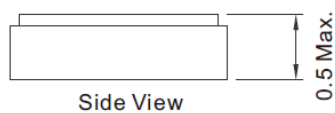
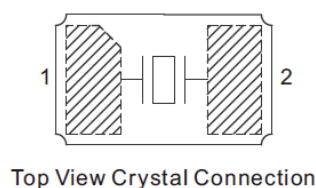
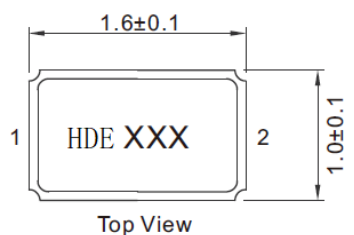
32.768KHz 技术指标:

指标名称 PARAMETER		值和单位 Value and Unit				
频率 Nominal Frequency		32.768KHz				
尺寸: Size	SMD1610	SMD2012	SMD3215	SMD7015	SMD8038	
	1.6×1.0	2.0×1.2	3.2×1.5	7.0×1.5	3.8×8.0	
等效串联电阻(基频: 32.768KHz) Equivalent Series Resistance	≤90kΩ	≤90kΩ	≤70kΩ	≤65kΩ	≤50kΩ	
静态电容 Shunt Capacitance (C0) Type.	1.3pF	1.3pF	1.0pF	0.8pF	1.3pF	
驱动电平 Drive Level	≤0.5μW	≤0.5μW	≤1.0μW	≤1.0μW	≤1.0μW	
负载电容 Load Capacitance	12.5Pf or specify					
零温度系数 Turnover Temperature	±25℃±5℃					
温度变化量 Parabolic coefficient (b)	±(-0.03±0.01) ×10 ⁻⁶ /℃					
频率稳定度 Frequency stability	温度稳定度 VS Temperature		≤±10ppm/±30ppm/±50ppm or specify			
	年老化率 Aging(at25℃)		≤±3ppm			
	频率准确度 Calibration frequency		±5ppm/±10ppm/20ppm or specify			
温度范围 Temperature Range	工作温度 Operation temperature		-40℃~+85℃			
	储藏温度 Storage temperature		-55℃~+125℃			

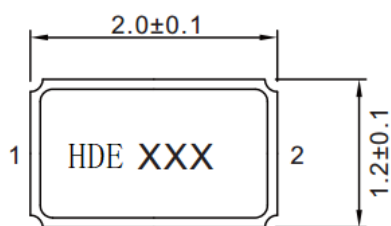
PACKAGE:

UNITS:MM

一、SMD1610



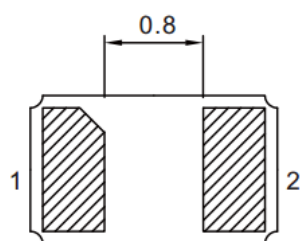
二、SMD2012



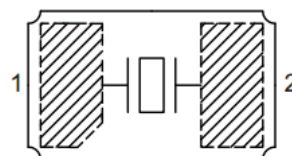
Top View



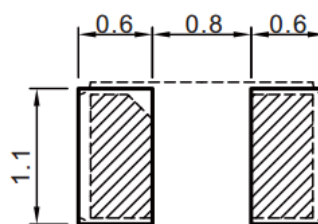
Side View



Bottom View

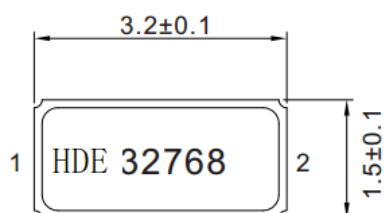


Top View Crystal Connection



Top View Suggested Layout

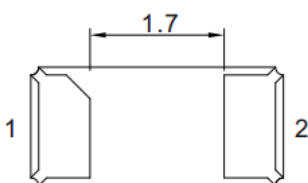
三、SMD3215



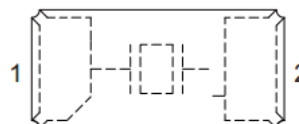
Top View



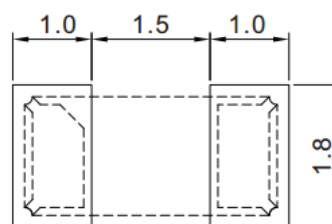
Side View



Bottom View

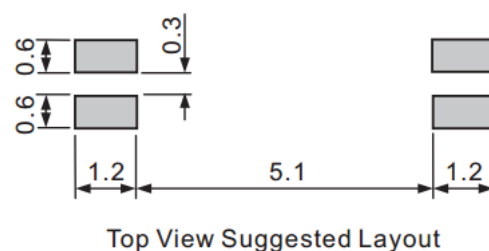
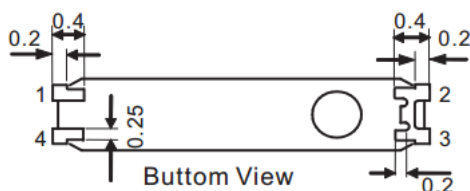
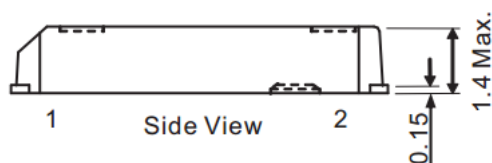
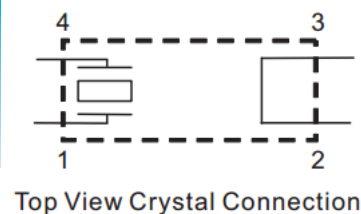
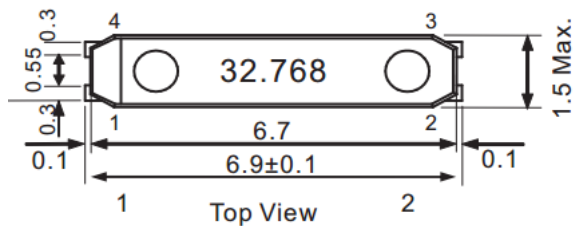


Top View Crystal Connection

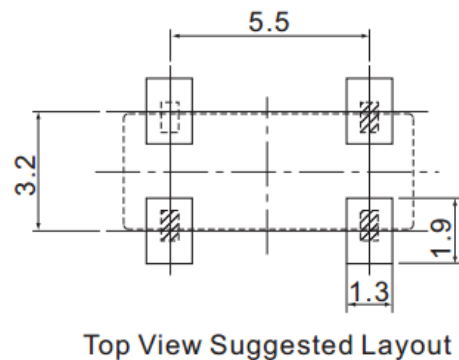
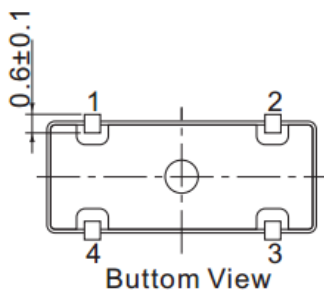
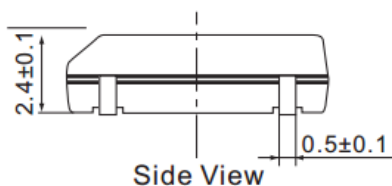
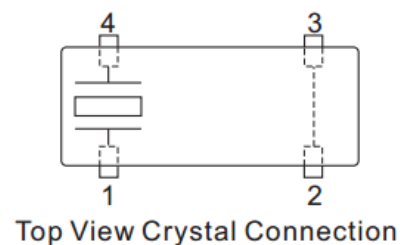
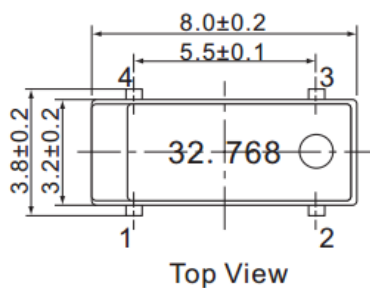


Top View Suggested Layout

四、SMD7015



五、SMD8038





晶体谐振器

公司名称	产品型号	震动模式	常温频差	温度频差	温度范围	负载电容	频率
HDE-	49U: Hc-49U 49S: HC-49S 49M: HC-49SMD UM1: UM-1 UM5: UM-5 Z26: 柱晶 2×6 Z38: 柱晶 3×8 Z39: 柱晶 3×9 Z31: 柱晶 3×10 M75: SMD7050 M53: SMD5032 M32: SMD3225 M22: SMD2520 M21: SMD2016 M11: SMD1612	F:基频 T: 三次泛音 R: 五次泛音	C: ±100ppm D: ±50ppm E: ±30ppm F: ±20ppm G: ±10ppm H: ±5ppm	C: ±100ppm D: ±50ppm E: ±30ppm F: ±20ppm G: ±10ppm H: ±5ppm	B:0 ~+50℃ C: 0 ~+70℃ D:-10~+60℃ E:-20~+70℃ F:-30~+80℃ G:-40~+85℃	**表示负载电容	**,***: 表示频率
例如: HDE-49SFFFG30-25.000							
HDE	49S	F	F	F	G	30	25.000
公司简称	HC-49S	基频	常温频差±20ppm	温度频差±20ppm	-40~+85℃	负载电容 30pF	标称频率: 25.000MHz
说明: 武汉恒达高科电子有限公司生产 49S 晶体 频率 25MHZ 基频率; 常温频差±20ppm; 温度频差±20ppm; 工作温度-40~+85℃; 负载电容: 30pF							