



**Data Sheet**



Product Category: SMD Quartz Crystal

Series Number	Package	Description	Last Modified
276	5 X 3.2 (4 Pad)	SMD Quartz Crystal	Jun. 15 2006

**FEATURES**

- 1.0mm max. low profile
- Tight stability / High reliability
- Wide frequency range
- Tape and Reel
- RoHs / Lead Free compliant

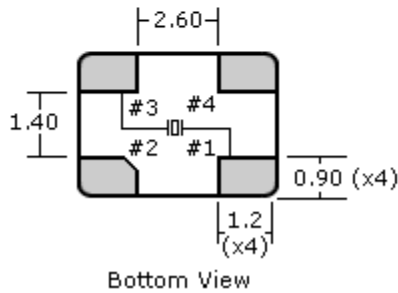
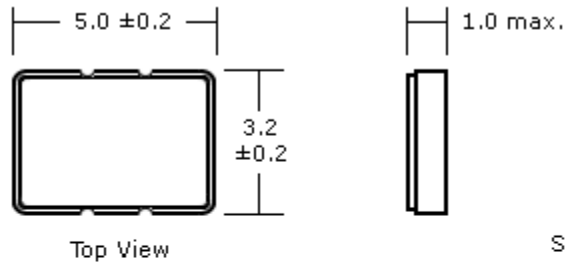
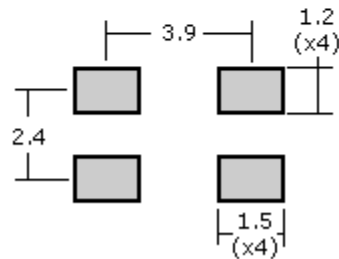


**OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS**

PARAMETERS		CHARACTERISTICS	UNITS
Frequency Range	$f_o$	12.000 ~ 36.000	MHz
Frequency Tolerance	@ 25°C	±10 ~ ±50	PPM
Frequency Stability	Ta = -10 +70°C	±10 ~ ±100	PPM
Operating Temperature	T <sub>OPR</sub>	-10 ~ +60, (Ext Temp Avail.)	°C
Storage Temperature	T <sub>STG</sub>	-40 ~ +85	°C
Shunt Capacitance	C <sub>O</sub>	7.0 max.	pF
Load Capacitance	C <sub>L</sub> (Customer Specified)	16, 20, 30, Series	pF
Drive Level	-	50	µW
Insulation Resistance	at 100V DC	500 min.	Mohms
Aging	-	±2	ppm/Y

**EQUIVALENT SERIES RESISTANCE / MODE OF OSCILLATION**

FREQUENCY RANGE (MHz)	MODE	MAX ESR Ohm	FREQUENCY RANGE (MHz)	MODE	MAX ESR Ohm
12.000 ~ 16.000	Fundamental	90	16.000 ~ 36.000	Fundamental	60

**PACKAGE DIMENSIONS (mm)****Suggested Solder Pad Layout (Top View)****PART NUMBER GUIDE**

Series Number	Frequency	Load Capacitance	Tolerance @ +25°C	Tolerance Over Temp (°C)	Operating Temp (°C)	Packaging**
<b>276</b>	<b>- 12.0M</b>	<b>- SR</b>	<b>- 05</b>	<b>G</b>	<b>R</b>	<b>- TR</b>
Oscilent 5 x 3.2 SMD	e.g. 14.0M for 14.000 MHz OR enter any desire frequency.	Enter desired capacitance here. See table below for standard load capacitance e.g. - 20 for 20pF or Enter SR for Series.	Blank * = ±30 PPM or Fill in E.G 05 = ±5 PPM 25 = ±25 PPM <b>Avail. = ±5 ~ ±100</b>	Blank* = ±50 PPM G = ±30 PPM H = ±20 PPM L = ±10 PPM N = ±100 PPM	P = 0~+50 R = -10~+60 S = -20~+70 T = -30~+80 W = -40~+85	Blank* = Bulk TR = Tape/Reel
<p><b>NOTE:</b> Deviations on all parameters available. Please consult Oscilent for details.</p> <p><b>DEFINITIONS:</b> Click on the characteristic names above for definitions of that particular characteristic.</p> <p><b>*STANDARDS:</b> "Blank" part number selections indicate standard variables for that particular characteristic.</p> <p><b>**PACKAGING:</b> Click on the packaging name above for tape/reel specifications</p>						

**Oscilent Corporation** - CALL **949.252.0522**

**Series No.:** 276

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