

Package	Description
5 x 3.2 (4 Pad)	SMD Quartz Crystal

### Features

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



### Electrical Characteristics

Parameter	Conditions	Characteristics	Units
Frequency Range	f <sub>0</sub>	12.000 ~ 36.000	MHz
Frequency Tolerance	@ 25°C	±10 ~ ±50	PPM
Frequency Stability	T <sub>a</sub> = -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>0</sub>	7.0 max.	pF
Load Capacitance	CL (Customer Specified)	16, 20, 30, Series	pF
Drive Level	-	50	μW
Insulation Resistance	at 100V DC	500 min.	Mohms
Aging	-	±2	ppm/Y

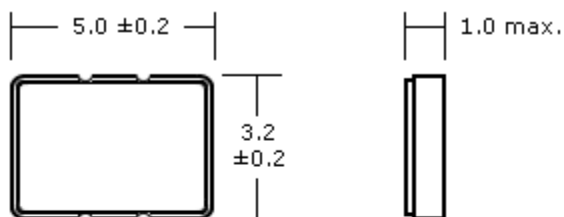
### Operation Mode and Motional Resistance

Frequency Range	Mode	Ohm Max
12.000 ~ 16.000	Fundamental	90
16.000 ~ 36.000	Fundamental	60

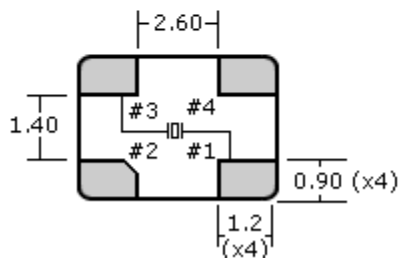
## Part Numbering Guide

Series Number	Frequency	Load Capacitance	Tolerance @ +25oC	Tolerance Over Temp ( oC )	Operating Temp ( oC )	Packaging
276	- 12.0M	- SR	- 05	G	R	- TR
Oscilent 5 x 3.2 SMD	e.g. 14.0M for 14.000 MHz OR enter any desire frequency.	Enter desired capacitance here. <u>See table below</u> 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>*STANDARDS:</b> "Blank" part number selections indicate standard variables for that particular characteristic.</p>						

## Package Dimensions

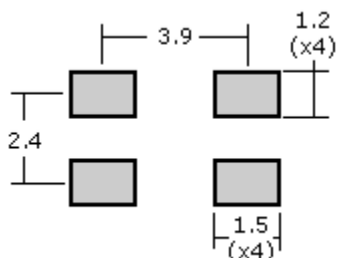


Top View



Bottom View

## Solder Pad Layout



All Dimensions in Millimeters

## Tape & Reel

- 1000 pieces per reel
- Compliant to EIA-481
- All Dimensions in Millimeters

