




Data Sheet



Product Category: SMD Quartz Crystal

Series Number	Package	Description	Last Modified
274	7 X 5 Seam Welded	SMD Quartz Crystal	Jan. 02 2005

FEATURES

- Seam welded metal lid / ceramic package
- 1.3mm max. low profile
- Tight stability / High reliability
- Wide frequency range
- Tape and Reel
- RoHs / Lead Free compliant 



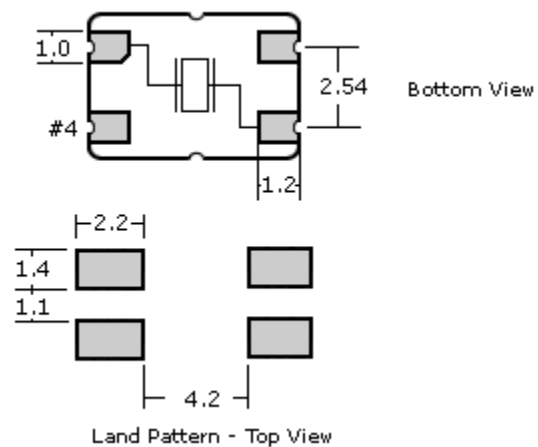
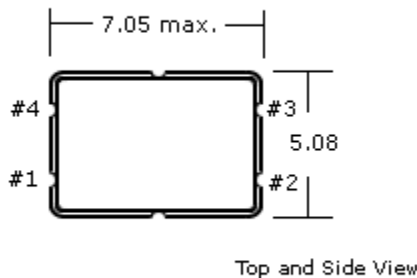
OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS		CHARACTERISTICS	UNITS
Frequency Range	f_o	6.00 ~ 80.00	MHz
Frequency Tolerance	@ 25°C	±10 ~ ±50	PPM
Frequency Stability	Ta = -10 +70°C	±10 ~ ±100	PPM
Operating Temperature	T _{OPR}	-10 ~ +60	°C
Storage Temperature	T _{STG}	-40 ~ +85	°C
Shunt Capacitance	C _O	7.0 max.	pF
Load Capacitance	C _L (Customer Specified)	16, 20, 30, Series	pF
Drive Level	6.00 ~ 80.00 MHz	0.01 ~ 1000	µW

EQUIVALENT SERIES RESISTANCE / MODE OF OSCILLATION

FREQUENCY RANGE (MHz)	MODE	MAX ESR Ohm	FREQUENCY RANGE (MHz)	MODE	MAX ESR Ohm
6.00 ~ 11.999	Fundamental	70	20.100 ~ 33.000	Fundamental	40
12.000 ~ 20.000	Fundamental	50	34.000 ~ 80.000	3rd O/T	80

PACKAGE DIMENSIONS (mm)



PART NUMBER GUIDE

Series Number	Frequency	Load Capacitance	Tolerance @ +25oC	Tolerance Over Temp (oC)	Operating Temp (oC)	Packaging**
274	- 12.0M	- SR	- 05	G	R	- TR
Oscilent 7 x5 SMD	See table below for standard freq. and enter here e.g. 2.048M for 2.048 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 Avail. = $\pm 5 \sim \pm 100$	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>NOTE: Deviations on all parameters available. Please consult Oscilent for details.</p> <p>DEFINITIONS: Click on the characteristic names above for definitions of that particular characteristic.</p> <p>*STANDARDS: "Blank" part number selections indicate standard variables for that particular characteristic.</p> <p>**PACKAGING: Click on the packaging name above for tape/reel specifications</p>						

STANDARD FREQUENCIES / LOAD CAPACITANCE - FOR GUIDE ONLY / OTHER FREQ/LOADS AVAILABLE

FREQUENCY (MHz)	LOAD (pF)							
	Series	12	13	16	17	18	20	30
9.8304	Std.	-	-	-	-	-	Std.	-
10.000	Std.	-	-	-	-	-	-	-
11.0592	Std.	-	-	-	-	-	Std.	-
12.000	Std.	-	-	-	-	-	-	-
14.31818	Std.	-	-	-	-	-	Std.	-
16.000	Std.	-	-	-	-	-	-	-
18.432	Std.	-	-	-	-	-	-	-
19.6608	Std.	-	-	-	-	-	-	-
20.000	Std.	-	-	-	-	-	Std.	-
24.000(F)	Std.	-	-	-	-	-	Std.	-
24.00014 (F)	Std.	-	-	-	-	-	-	-
30.000 (F)	Std.	-	-	-	-	-	-	-
30.000 (OT)	Std.	-	-	-	-	-	-	-
32.000 (F)	Std.	-	-	-	-	-	-	-
32.000 (OT)	Std.	-	-	-	-	-	-	-
33.000 (OT)	Std.	-	-	-	-	-	-	-
33.8688 (F)	-	-	-	-	-	-	-	-
35.2512(OT)	Std.	-	-	-	-	-	-	-
36.000 (F)	Std.	-	-	-	-	-	-	-
36.000 (OT)	Std.	-	-	-	-	-	-	-
40.000 (F)	Std.	-	-	-	-	-	-	-
40.00 (OT)	Std.	-	-	-	-	-	-	-
40.32 (F)	Std.	-	-	-	-	-	-	-
40.32 (OT)	Std.	-	-	-	-	-	-	-
FREQUENCY	Series	12	13	16	17	18	20	30

(MHz)	LOAD (pF)
F = Fundamental OT = 3RD OT	
NOTE: Other frequencies and load capacitance available. Please consult Oscilent for part numbers.	

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Series No.: [274](#)