



Data Sheet

 telephone
949 252 0522

BACK

Product Category: SMD Quartz Crystal

Series Number	Package	Description	Last Modified
279	4.0 x 2.5 Chip Type	SMD Quartz Crystal	Nov. 17, 2011

FEATURES

- 4.0x2.5mm Surface Mount Chip Type Quartz Crystal
- Low profile (0.75mm)
- Optimum for mobile phone and bluetooth applications
- Excellent heat and shock resistance
- RoHS / Lead Free compliant

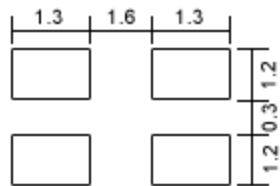
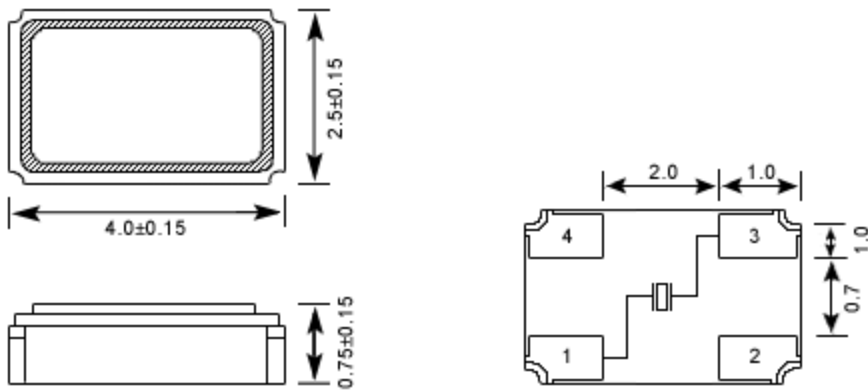
**OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS**

PARAMETERS	SYMBOL	CONDITION	MINIMUM	TYPICAL	MAXIMUM	UNITS
Frequency Range	Fo	-	12	-	32	MHz
Frequency Tolerance	$\Delta F/Fo$	@ 25°C	± 10	± 15	± 30	ppm
Temperature Stability	Tc	REFTO25°C	± 10	± 15	± 30	ppm(Δ °C)
Operating Temperature	TORP	-	-20	-	+70	°C
Storage Temperature	TSTG	-	-40	-	+85	°C
Shunt Capacitance	Co	-	-	-	3	pF
Load Capacitance	CL	-	8	-	12	pF
Insulation Resistance	IR	-	500	-	-	M Ω
Drive Level	DL	100VDC	10	100	300	μ W
Aging	Fa	@25°C per year	-2.0	-	+2.0	Ppm

EQUIVALENT SERIES RESISTANCE (ESR) AND MODE OF VIBRATION (MODE)

PARAMETERS	MAX ESR (OHM)	MODE
12.000MHZ ~ 19.999MHZ	80	Fundamental
20.000MHZ ~ 25.999MHZ	70	Fundamental
26.000MHZ ~ 32.000MHZ	50	Fundamental

PACKAGE DIMENSIONS



Recommended Solder Pattern

PART NUMBER GUIDE

Example: 279-25.0M-9-15-K-S-TR

(All fields separated by a dash "-")

Series Number	Frequency	Load Capacitance	Tolerance @ +25°C	Frequency Stability Over Temp (°C)	Operating Temp (°C)	Packaging**
279	25.0M	9	15	K	S	TR
Oscilent 4.0 x 2.5 SMD	Enter desired frequency. Avail. = 12 ~ 32.0M	Enter desired capacitance here. Avail. = 8 ~ 12pF	Blank * = ±30 PPM 10 = ±10 PPM 15 = ±15 PPM 20 = ±20 PPM 25 = ±25 PPM 50 = ±50 PPM Avail. = ±10 ~ ±30	Blank* = ±50 PPM G = ±30 PPM H = ±20 PPM K = ±15 PPM L = ±10 PPM N = ±5 PPM M = ±100 PPM Avail. = ±10 ~ ±30	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>						

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Series No.: 279

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