



**Data Sheet**



Product Category: Quartz Crystals

Series Number	Package	Description	Last Modified
152	HC-25US	Weld Type Quartz	July. 01 2005

**Quartz Crystal FEATURES**

- Industry standard package
- Wide frequency range
- Low profile
- Excellent reliability/aging
- "AT Strip" blank technology
- Cost effective
- RoHs / Lead Free compliant



**OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS**

PARAMETERS	CONDITIONS	CHARACTERISTICS	UNITS
Frequency Range	$f_0$	3.200 ~ 85.00	MHz
Frequency Tolerance	Ref @ +25°C	±10 ~ ±50	PPM
Temperature Tolerance	$T_L$	±20 ~ ±100	PPM
Operating Temperature	$T_{OPR}$	-10 ~ +60	°C
Storage Temperature	$T_{STG}$	-55 ~ +125	°C
Shunt Capacitance	$C_O$	7.0 max.	pF
Load Capacitance	$C_L$	16, 20, 30, Series	pF
Drive Level	$D_L$	0.01 ~ 1000.0	µW
Aging (First Year)	@ +25°C	±5.0	PPM/Y
Insulation Resistance	$I_R$	500 (DC100 ±10V) min.	Mohm

**MODE OF OSCILLATION AND EQUIVALENT SERIES RESISTANCE**

FREQUENCY RANGE (MHz)	MODE	ohm max.	FREQUENCY RANGE (MHz)	MODE	ohm max.
3.200 ~ 3.500	Fundamental	200	12.000 ~ 14.000	Fundamental	50
3.510 ~ 4.090	Fundamental	150	14.100 ~ 17.000	Fundamental	40
4.100 ~ 4.790	Fundamental	120	17.100 ~ 27.000	Fundamental	30
4.800 ~ 5.790	Fundamental	100	27.100 ~ 48.000	3rd Overtone	80
5.800 ~ 7.990	Fundamental	90	48.100 ~ 85.000	3rd Overtone	60
8.000 ~ 11.990	Fundamental	70			



7.3728	Std.	-	-	-	-	-	Std.	-
8.000	Std.	-	-	-	-	-	-	Std.
9.216	Std.	-	-	-	-	-	Std.	-
9.540	Std.	-	-	-	-	-	-	-
9.8304	Std.	-	-	-	-	-	Std.	-
10.000	Std.	-	-	-	-	-	-	-
10.738635	Std.	-	-	-	-	-	-	-
11.000	Std.	-	-	-	-	-	-	-
11.0592	Std.	-	-	Std.	-	-	Std.	Std.
11.520	Std.	-	-	-	-	-	-	-
11.98135	Std.	-	-	-	-	-	-	-
12.000	Std.	-	-	-	-	-	Std.	Std.
12.000393	-	-	-	-	-	-	-	-
12.096	Std.	-	-	-	-	-	-	-
12.288	Std.	-	-	-	-	-	Std.	-
12.960	-	-	-	-	-	-	-	-
14.31818	Std.	-	-	-	-	-	Std.	-
14.7456	Std.	-	-	-	-	-	Std.	-
15.000	Std.	-	-	-	-	-	-	-
15.360	Std.	-	-	-	-	-	Std.	-
16.000	Std.	-	-	Std.	-	-	Std.	-
16.000312	-	-	-	-	-	-	-	-
16.257	Std.	-	-	-	-	-	Std.	-
16.9344	-	-	-	-	-	-	Std.	-
17.734475	Std.	-	-	-	-	-	-	-
18.000	Std.	-	-	-	-	-	Std.	-
18.432	Std.	-	-	-	-	-	Std.	-
19.6608	Std.	-	-	-	-	-	Std.	-
20.000	Std.	-	-	-	-	-	Std.	-
21.47727	Std.	-	-	-	-	-	-	-
22.1184	Std.	-	-	-	-	-	-	-
24.000(F)	Std.	-	-	Std.	-	-	Std.	-
24.00014 (F)	-	-	-	-	-	-	-	-
FREQUENCY (MHz)	Series	12	13	16	17	18	20	30
	LOAD (pF)							

**F = Fundamental | OT = 3RD Overtone**

**NOTE:** Other frequencies and load capacitance available. PLEASE SPECIFY IN PART NUMBER GUIDE

**Series No.:** 152

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

18195 East McDermott Street , Building D , Irvine , CA 92614 , USA  
Fax: 949.252.0599 , E-Mail: [Sales@Oscilent.com](mailto:Sales@Oscilent.com)

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