Vishay Dale



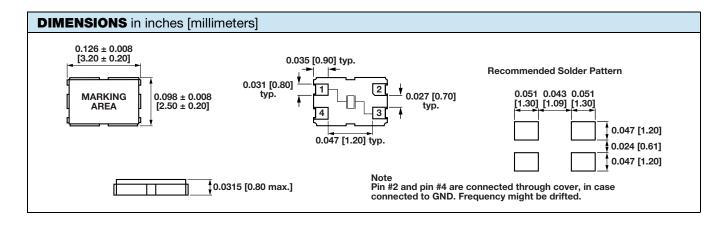
Quartz Crystals

FEATURES

- Ultra-miniature size: 3.2 x 2.5 x 0.8 (mm)
- Wide frequency range
- Seam sealing
- Emboss taping
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

STANDARD ELECTRIC	SYMBOL		UNIT	MIN.	TYP.	MAX.
		CONDITION			116.	
Frequency range	Fo		MHz	12 000	-	54 000
Frequency tolerance	$\Delta F/F_O$	at 25 °C	ppm	-	± 30	-
Temperature stability	T _C	ref. to 25 °C	ppm	-	± 50	-
Operating temperature range	T _{OPR}		°C	-10	-	+70
Storage temperature range	T _{STG}		°C	-55	-	+125
Shunt capacitance	C ₀		pF	-	-	3
Load capacitance	CL	customer specified	pF	10	-	series
Insulation resistance	I _R	100 V _{DC}	MΩ	500	-	-
Drive level	DL		μW	10	100	300
Aging	Fa	at 25 °C, per year	ppm	-5	-	+5

EQUIVALENT SERIES RESISTANCE (ESR) AND MODE OF VIBRATION (MODE)						
FREQUENCY RANGE (MHz)	ΜΑΧ. ESR (Ω)	MODE				
12.000 to 12.999	100	fundamental				
13.000 to 19.999	80	fundamental				
20.000 to 29.999	70	fundamental				
30.000 to 54.000	50	fundamental				



Revision: 11-Jul-17

1 For technical questions, contact: <u>frequency@vishay.com</u> Document Number: 35063

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The XT23 is a miniature SMD crystal with 3.2 x 2.5 (mm) ceramic package and a height of 0.8 mm. 12 MHz to 54 MHz frequency makes it widely applied in PDA, GPS, MP3,

PCMCIA, bluetooth, and portable instruments.

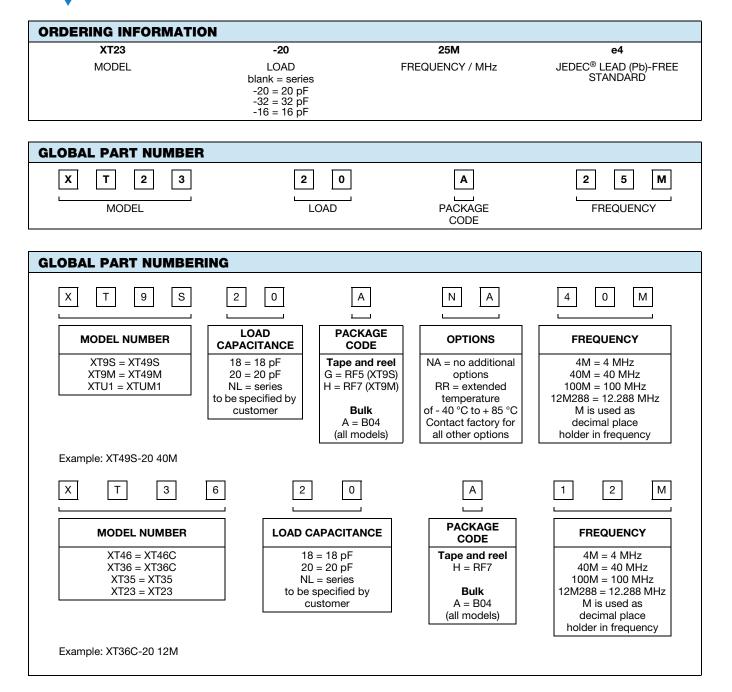
XT23



COMPLIANT

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