



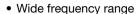
Quartz Crystals



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.

FEATURES

• Ultra-miniature size: 3.2 x 2.5 x 0.8 (mm)



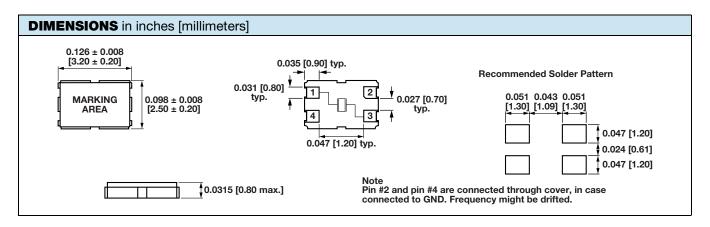
- · Seam sealing
- · Emboss taping
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS

STANDARD ELECTRICAL SPECIFICATIONS							
PARAMETER	SYMBOL	CONDITION	UNIT	MIN.	TYP.	MAX.	
Frequency range	F _O		MHz	12 000	-	54 000	
Frequency tolerance	∆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	C_L	customer specified	pF	10	-	series	
Insulation resistance	I _R	100 V _{DC}	MΩ	500	-	-	
Drive level	D _L		μW	10	100	300	
Aging	Fa	at 25 °C, per year	ppm	-5	-	+5	

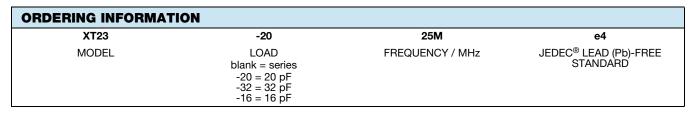
EQUIVALENT SERIES RESISTANCE (ESR) AND MODE OF VIBRATION (MODE)						
FREQUENCY RANGE (MHz)	MAX. ESR (Ω)	MODE				
12.000 to 12.999	100	fundamental				
13.000 to 19.999	80	fundamental				
20.000 to 29.999	70	fundamental				
30.000 to 54.000	50	fundamental				

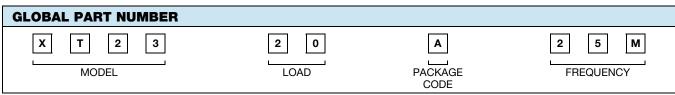


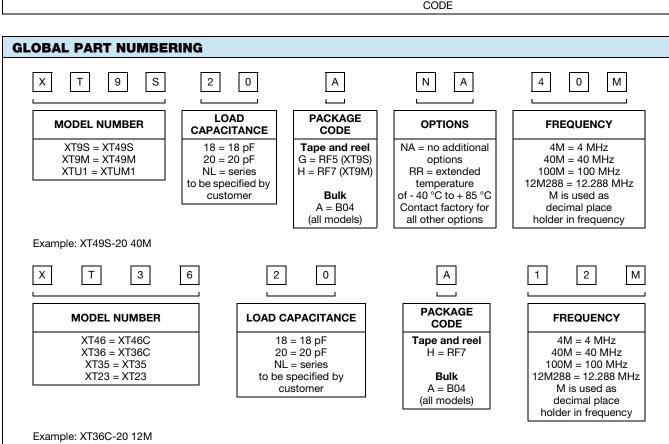




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